



Geethanjali College of Engineering and Technology

(UGC Autonomous Institution)

Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana - 501 301

(Approved by AICTE, Permanently Affiliated to JNTUH,

Accredited by NAAC with 'A+' Grade, Accredited by NBA, ISO 9000:2008 Certified)

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TECH EPISTLE

**NEWSLETTER
VOLUME 12, ISSUE 2
JANUARY - JUNE 2024**



Chairman: Sri G. R. Ravinder Reddy

Principal: Dr. S. Udaya Kumar

Dean, School of Computer Science and Informatics:

Dr. V. Madhusudan Rao, Professor

Head of the Department:

Dr. A. SreeLakshmi, Professor

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Dr. Neha Nandal, Associate Professor

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Dr. R.V. Sudhakar, Associate Professor

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Vision of the Department

- ♦ To produce globally competent and socially responsible computer science engineers contributing to the advancement of engineering and technology which involves creativity and innovation by providing excellent learning environment with world class facilities.

Mission of the Department

- ♦ To be a centre of excellence in instruction, innovation in research and scholarship, and service to the stake holders, the profession, and the public.
- ♦ To prepare graduates to enter a rapidly changing field as a competent computer science engineer.
- ♦ To prepare graduate capable in all phases of software development, possess a firm understanding of hardware technologies, have the strong mathematical background necessary for scientific computing, and be sufficiently well versed in general theory to allow growth within the discipline as it advances.
- ♦ To prepare graduates to assume leadership roles by possessing good communication skills, the ability to work effectively as team members, and an appreciation for their social and ethical responsibility in a global setting.

Department News and Achievements

- ♦ Department of CSE celebrated a remarkable achievement of **Ms.D.Sree Sai Soujanya (20R11A0573)**, CSE Dept, **got highest salary package of 46 Lakhs Per Annum at AMAZON.**
- ♦ Department of CSE **Launched a specialized Design Thinking course** in collaboration with industry experts (T-HUB), providing students with practical, real-world insights and innovative problem-solving skills.
- ♦ Department of CSE **Facilitated the establishment of a Memorandum of Understanding (MoU) with Talentfarm.ai**, enhancing collaboration opportunities and fostering innovation at the college.
- ♦ A Total of **339 CSE Students completed the ORACLE ACADEMY certification Course on “Java Programming”** during Feb 2024 to June 2024.
- ♦ A Total of **398 internships (Eduskills:326, Cantilever:72)** completed by the **II Year CSE Students** at Eduskills and Cantilever during Feb 2024 to June 2024.
- ♦ A Total of **13 internships** completed by the **III Year CSE Students** at PalAlto.
- ♦ A Total of **112 internships** completed by the **IV Year CSE Students** at various reputed companies.

Faculty Achievements

- ♦ **Dr. Puja S Prasad**, Associate Professor, Department of CSE, **Recognized as a India Council Student mentor**, by IEEE Section.
- ♦ **Dr. Neha Nandal**, Associate Professor, Department of CSE, **Received MGM AWARD**, issued by IEEE Section.
- ♦ **Dr. Neha Nandal**, Associate Professor, Department of CSE, **Organized a special session on “AI and IoT incubation for healthcare”** at ICANTCI 2024, held at Chitkara University, Punjab.
- ♦ **Mr. V. Shiva Narayana Reddy**, Associate Professor, Department of CSE, **Won the 1st prize** for the case study presentation on **“Narrative Pedagogy”**, at two day conference on **“EDUCATION 2.0: NEW HORIZONS IN TEACHING, LEARNING AND ASSESSMENT”** jointly organized by Teaching & Learning center of BITS PILANI, Hyderabad held on 3rd, 4th January, 2024.
- ♦ **Ms. S.Radha**, Senior Assistant Professor, Department of CSE, **Recognized as NPTEL Enthusiast during Jan-Apr 2024.**
- ♦ **Ms. P.UshaShree**, Assistant Professor, Department of CSE, **Recognized as “Oracle Cloud Infrastructure 2024 - Generative AI Certified Professional”.**
- ♦ **Ms. P. Sobha Rani**, Assistant Professor, Department of CSE, **Received “Elite+Silver” NPTEL Certification** for the course titled “Cloud Computing”, Organized by IIT Kharagpur, During Jan–April 2024.

Faculty Patents & Book Chapters Published by Faculty

- ♦ **Dr. Neha Nandal**, Associate Professor, Department of CSE, has secured a patent publication titled **“Smart Device for Mental Health Assessment ”** with the application number 6337690, in January 2024.
- ♦ **Dr. K. Krishna Jyothi**, Associate Professor, Department of CSE, has secured a patent publication titled **“Safe-Secure Access and Fortification Enabler”** with the application number 202441035310A, in May 2024.
- ♦ **Dr. Neha Nandal**, Associate Professor, Department of CSE, Published a Book chapter Titled **“Sentiment Analysis Unveiled: Techniques, Applications , and Innovations”**, CRC Press, Feb 2024, ISBN:9781003504832.

Faculty Qualified in SWAYAM NPTEL Courses during JANUARY – APRIL 2024

S.No.	Faculty Name	Course Name	Course Duration	Course Offered by	Certificate Type
1.	P.Sobha Rani, Assistant Professor	Cloud Computing	12 Weeks, JAN-APRIL 2024	IIT Kharagpur	Elite+Silver
2.	P. Deeplaxmi, Assistant Professor	Software Testing	4 Weeks, JAN-MARCH 2024	IIT Kharagpur	Elite

Student Achievements

- ♦ Ms. D. Sree Sai Soujanya(20R11A0573), secured placement at “AMAZON” with a salary package of 46 Lakhs Per Annum.

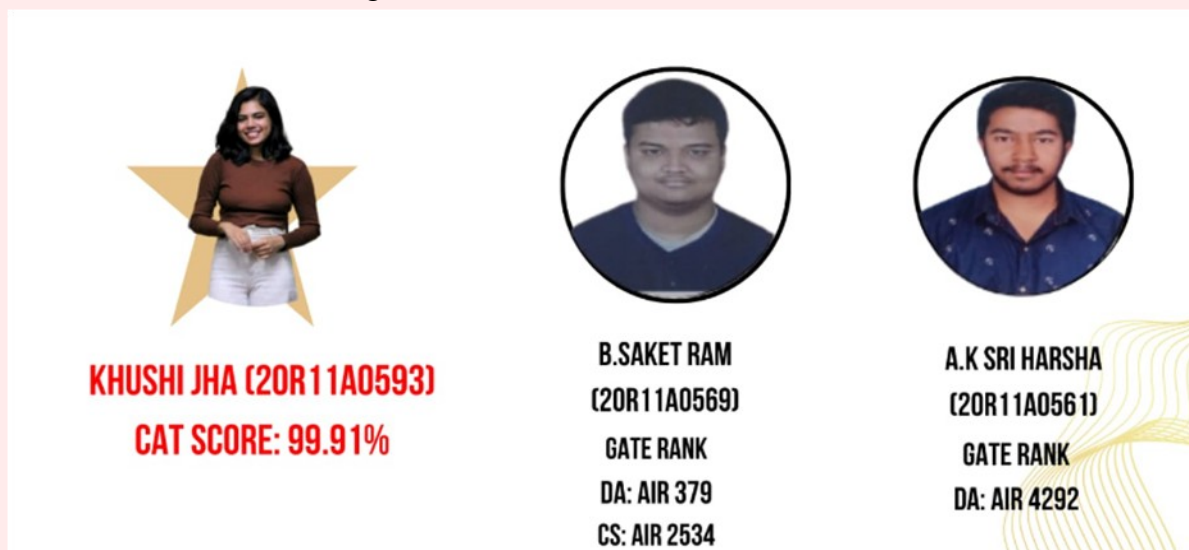


- ♦ Mr. A.K Sri Harsha (20R11A0561) was the one of the team member of “Salubrity team” and won the First Prize in Hackathon-MATHADEMIA 2024 event, organized by MATH HUB (Machine Learning and Artificial Intelligence Technology Hub), TalentFarm supported by T-HUB during 16-17 May 2024 and he has received 70K Worth incubation facilities at T-HUB, Hyderabad.



Student Achievements

- ♦ **Ms. Kushi Jha (20R11A0593)** scored **99.91% in CAT exam (Common Admission Test).**
- ♦ **Mr. B.Saket Ram (20R11A0569)** secured **All India Rank 379 in GATE 2024** in “Data Science and Artificial Intelligence” branch and also secured **All India Rank 2534** in Computer science branch.
- ♦ **Mr. A.K Sri Harsha (20R11A0561)** secured **All India Rank 4292 in GATE 2024** in “Data Science and Artificial Intelligence” branch.



- ♦ **Ms. D. Sreeja Reddy (22R11A0555)** won the **First prize** in event titled “**Abhigyan Ideathon**” and she has received a **cash prize of Rs.2,500** at MVSR college, Hyderabad, held on 6th Jan, 2024.
- ♦ **Ms. D. Sreeja Reddy (22R11A0555)** won **First prize** in the event titled “**Dakha 3.0 debate**” and she has received a **Cash prize of Rs.1000** at ANURAG University, Hyderabad. held on 23 & 24 February, 2024.
- ♦ **Ms. D. Sreeja Reddy (22R11A0555)** won **Second prize** in the event titled “**Dakha 3.0 Startup Plan**” and she has received a **Cash prize of Rs.500** at ANURAG University, Hyderabad. held on 23 & 24 February, 2024.



Student Achievements

- ♦ **Mr. B.Vignesh(21R11A05F8), Won the First Prize in the titled "CodePragna" (National level coding contest in C, C++, JAVA, Python), at ACE Engineering College, held on 22-06-2024.**



- ♦ **Ms. V.R. Sai Sharnya (22R11A05Y7) and Mr. Relangi Tarun Kumar (22R11A05X9) secured paid internships at Talentfarm.ai for their exemplary performance in Design Thinking Course dealt by industry partners during Academic Year 2023-24. Sai Sharnya also received an appreciation award of Rs.5000 for the best presentation.**



- ♦ **The Department of CSE has been declared overall championship award in VIBES 2024, held on March 2024, at Geethanjali College of Engineering and Technology.**



Student Achievements**Student Qualified in SWAYAM NPTEL Courses during JANUARY –APRIL 2024**

S.No.	Student Name/ Roll Number	Course Name	Course Duration	Course Offered by the Institute	Certificate Type
1.	Ratnala Neha (23R11A05T7)	Design Thinking - A Primer	4 Weeks JAN-MARCH 2024	IIT Madras	Elite+Silver
2.	Ravula Sai Monisha (22R11A0579)	Programming, Data Structures And Algorithms Using Python	8 Weeks, JAN-APRIL 2024	Chennai Mathe- matical Institute	Elite

List of Students completed “ServiceNow” Certification:

S.No.	Student Name	Roll Number	Certification Name
1.	Mamilla Rithika	21R11A05D0	Service Now Certified System
2.	M Harshitha Reddy	21R11A05D2	Service Now Certified System
3.	Sakshi Chandesurye	21R11A05E4	Service Now Certified System
4.	Oddepally Pujitha	21R11A05J6	Service Now Certified System
5.	R Gayathri Susmitha	20R11A05A4	i) Service Now Certified System Administrator(CSA) ii) Service Now Certified

Student Achievements at Extra-Curricular Activities

S.No.	Roll Number	Student Name	Event Name	Organized by	Event Date	Prize Won
1.	22R11A05L6	K. Vasanth	Kabaddi	GCET	22-3-24	Winners
2.	22R11A05M2	M. Vinuthan	Kabaddi	GCET	22-3-24	Winners
3.	22R11A0570	Lavuri Ramlal Nayak	Kabaddi	GCET	22-3-24	Winners
4.	22R11A0540	S. SaiHarshith	Kabaddi	GCET	22-3-24	Winners
5.	22R11A05K0	B. RishiVenkat	Kabaddi	GCET	22-3-24	Winners
6.	22R11A05N0	R. Rohith	Kabaddi	GCET	22-3-24	Winners
7.	22R11A0529	N. Nikhil Sai	Kabaddi	GCET	22-3-24	Winners
8.	23R11A05Y6	R. Kalyan	Kabaddi	GCET	22-3-24	Runners
9.	23R11A6293	V. Shiva	Kabaddi	GCET	22-3-24	Runners
10.	23R11A05G6	M. Rahul	Kabaddi	GCET	22-3-24	Runners
11.	23R11A05K1	D. Ajay	Table Tennis	GCET	22-3-24	Runners
12.	23R11A05K6	E. Venkatesh	Table Tennis	GCET	22-3-24	Runners
13.	23R11A05Y2	P. Sujeeth	100 Mts	GCET	22-3-24	II PRIZE
14.	23R11A05C6	M. Akhil	100 Mts	GCET	22-3-24	III PRIZE
15.	23R11A05Y2	P. Sujeeth	200 Mts	GCET	22-3-24	II PRIZE
16.	23R11A05C6	M. Akhil	200 Mts	GCET	22-3-24	III PRIZE
17.	23R11A05K9	Samanvitha	Kabaddi(Girls)	GCET	22-3-24	Winners
18.	23R11A0539	Uma Devi	Kabaddi(Girls)	GCET	22-3-24	Runners
19.	23R11A05Y0	Surabhi Nyneeta- Rao	BasketBall (Girls)	GCET	22-3-24	Winners
20.	21R11A0595	P. BSN Sriya	BasketBall (Girls)	GCET	22-3-24	Winners
21.	23R11A05J0	Tuniki Keerthi	BasketBall (Girls)	GCET	22-3-24	Runners
22.	23R11A05K9	Samanvitha	Kho-Kho (Girls)	GCET	22-3-24	Winners
23.	20R11A05F1	L. Medha Reddy	Throw Ball	GCET	22-3-24	Winners
24.	23R11A05K9	J. Samanvitha	Throw Ball	GCET	22-3-24	Winners

Student Achievements at Extra-Curricular Activities

S.No.	Roll Number	Student Name	Event Name	Organized by	Event Date	Prize Won
25	22R11A05T9	S. Tazia	Throw Ball	GCET	22-3-24	Winners
26	23R11A05B9	K.Manogna	Throw Ball	GCET	22-3-24	Winners
27	22R11A0509	Ch. Amrutha Varshini	Throw Ball	GCET	22-3-24	Runners
28	23R11A05R4	M. Lakshmi	Throw Ball	GCET	22-3-24	Runners
29	23R11A05K9	J Samanvitha	Carrom	GCET	22-3-24	Runners
30	20R11A05F1	L. Medha	Carrom	GCET	22-3-24	Runners
31	22R11A0596	A. Pallavi Naga	Table Tennis	GCET	22-3-24	Winners
32	22R11A05B4	G. RamyaSree	Table Tennis	GCET	22-3-24	Winners
33	20R11A05J5	B. Suma Reddy	Tennikoit	GCET	22-3-24	Winners
34	23R11A05K9	J. Samanvitha	Tennikoit	GCET	22-3-24	Winners
35	20R11A05J5	B. Suma Reddy	Tennikoit	GCET	22-3-24	Winners
36	22R11A0598	A. SravyaSree	Tennikoit	GCET	22-3-24	Runners
37	22R11A0596	A. Pallavi Naga	Tennikoit	GCET	22-3-24	Runners
38	23R11A05K9	J. Samanvitha	100 Mts	GCET	22-3-24	III PRIZE
39	23R11A05K9	J. Samanvitha	200 Mts	GCET	22-3-24	III PRIZE
40	21R11A05L5	M. Padma	Discus Throw	GCET	22-3-24	I PRIZE
41	22R11A0596	A. Pallavi Naga	Discus Throw	GCET	22-3-24	II PRIZE
42	23R11A05K9	J. Samanvitha	Shot-Put	GCET	22-3-24	I PRIZE
43	21R11A05L5	M. Padma	Shot-Put	GCET	22-3-24	II PRIZE

Academic Toppers

2020 - 2024 BATCH

I Rank	II Rank	III Rank	IV Rank	V Rank
				
Student Name: Ms. KOLETI PAVANI PRIYA	Student Name: Ms. D SREE SAI SOUJANYA	Student Name: Ms. RAMADUGU GAYATHRI SUSMITHA	Student Name: Ms. KOSGI AAKANKSHA REDDY	Student Name: Ms. RAMINENI BHAVYA
Roll Number: 20R11A0590	Roll Number: 20R11A0573	Roll Number: 20R11A05A4	Roll Number: 20R11A0592	Roll Number: 20R11A05A5
CGPA: 9.39	CGPA: 9.29	CGPA: 9.28	CGPA: 9.17	CGPA: 9.11

2021 - 2025 BATCH (upto II YEAR)

I Rank	II Rank	III Rank	IV Rank	V Rank
				
Student Name: Ms. MAMILLA RITHIKA	Student Name: Ms. SANIA BEGUM	Student Name: Ms. MANDADI HARSHITHA REDDY	Student Name: Mr. A. PRANEETH KUMAR REDDY	Student Name: Mr. SATYAM DAS
Roll Number: 21R11A05D0	Roll Number: 21R11A0548	Roll Number: 21R11A05D2	Roll Number: 21R11A05L6	Roll Number: 21R11A05E5
CGPA: 9.62	CGPA: 9.48	CGPA: 9.39	CGPA: 9.26	CGPA: 9.07

Academic Toppers

2022 - 2026 BATCH (upto I YEAR)

I Rank	II Rank	III Rank	IV Rank	V Rank
				
Student Name: Ms. B SAI SATHVIKA	Student Name: Ms. RAVULA SAI MONISHA	Student Name: Ms. KONREDDY HIMASRI	Student Name: Ms. VANA- GAROUTHU SAI SHARANYA	Student Name: Ms. AYESHA
Roll Number: 22R11A05P5	Roll Number: 22R11A0579	Roll Number: 22R11A0522	Roll Number: 22R11A05Y7	Roll Number: 22R11A0505
CGPA: 9.84	CGPA: 9.72	CGPA: 9.68	CGPA: 9.64	CGPA: 9.62

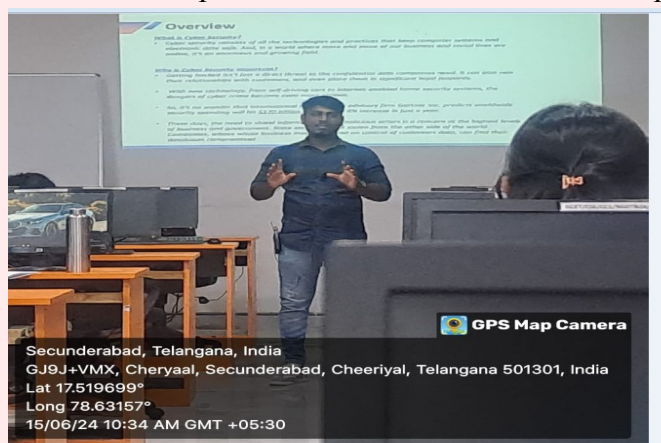
CYBER SECURITY CLUB ACTIVITIES

- ♦ **Two Day Bootcamp on “Digital Forensics”** was conducted for II Year CSE students, held from 19-06-2024 to 20-06-2024. The resource persons for the bootcamp were **Mr. G.Akhil**, CEO and Co-Founder of Hackerinthehouse, Hyderabad **and Mr.S.Pradhan**, Co-Founder of Hackerinthehouse, Hyderabad. A Total of 74 students attended the workshop. The Coordinator for the workshop was Mrs. B. Mamatha, Assistant Professor, CSE Department and Mrs. G.HimaBindu, Cyber security Dept., GCET.



Bootcamp on “Digital Forensics”

- ♦ **Two Day Workshop on “Introduction to Cyber Security & Digital Forensics”** was conducted for III Year CSE students, held on 15-06-2024 & 22-06-2024. The resource persons for the workshop was **Mr. Sai Prakash Chary Vadla (Alumni of GCET)**, Associate Technical & Incubation Cyber Security Center Of Excellence-DSCI, Hyderabad. A Total of 21 students attended the workshop. The Coordinator for the workshop was Mrs.E.Vijaya, Assistant Professor, CSE Dept.



Algorand Blockchain Club

- Algorand Blockchain Club (ABC) is a global initiative by the Algorand Foundation to build a community of students, interested in blockchain technology. Algorand Blockchain Club of GCET was established on 18-June-2024, in collaboration with Algorand, a leading blockchain platform. In partnership with Algorand, we are committed to provide our members with access to cutting-edge resources, tools, and insights into the Algorand blockchain platform. This collaboration will offer unique opportunities for exploring real-world use cases, experimenting with Algorand's features, and engaging with the broader blockchain community.
- The Faculty Coordinators for the Algorand Blockchain club were Dr.A.Hari Prasad Reddy, Associate Professor, CSE Dept., Ms. G. Himabindu, Assistant Professor, CSE-CS Dept.

Name of the Event	Event Date	Resource Person	Number of Students participated
Session on “Introduction to Blockchain Technology”	18-06-2024	Mr. Akash Rao Mallareddy, Algobharat Regional Ambassador, Telangana	75

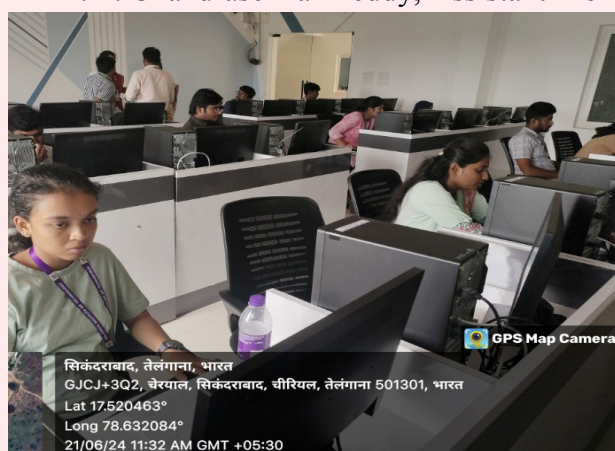
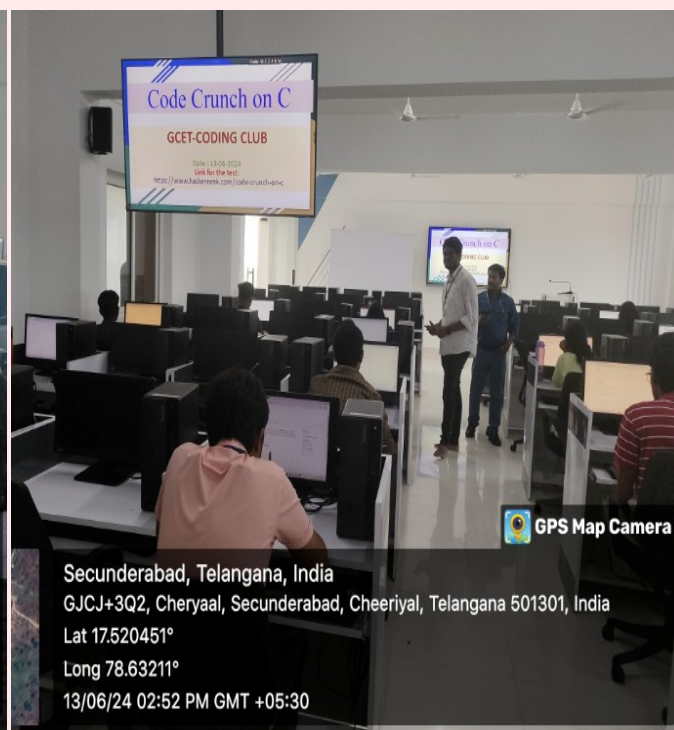
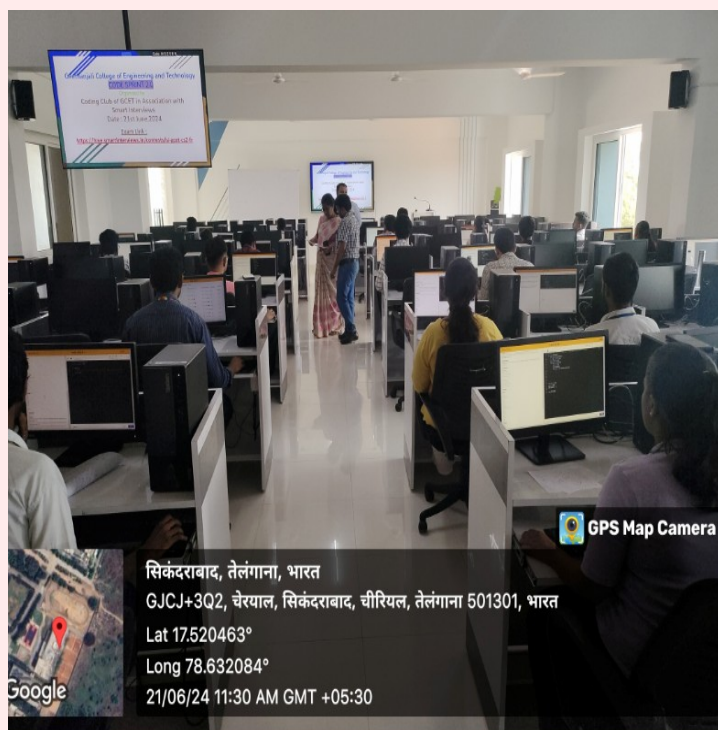


Algorand Blockchain Club

CODING CLUB ACTIVITIES

S.No.	Name of the Event	Event Date	Total participants	CSE Students participated
1	Code Crunch on Data Structures	28-02-2024	150	83
2	Code Crunch on 'C'	13-06-2024	74	44
3	Code Sprint 2.0	19-06-2024, 21-06-2024	181	65

The Faculty Coordinators for Coding club were Ms. M. Keerthi, Assistant Professor, CSE-IoT Dept., Mr.S.Ramanjaneyulu, Assistant Professor, CSE Dept., Mr. P. Srinivas, Assistant Professor, CSE Dept., Mr. P. Chandrasekhar Reddy, Assistant Professor, CSE Dept.

ROBOTICS CLUB ACTIVITIES

S.No.	Name of the Event	Event Date	Total Participants
1	Roboko-2024 Competition	01-03-2024 to 02-03-2024	300
2	Drone innovation in action	28-06-2024	93

Roboko-2024:

Professional Society Activities

S.No.	Module Description	Date	Coordinator	Organized by	Number of Participants
1	CodeQuizz: ML Edition	28/02/2024	Dr. Neha Nandal	IEEE-CS of GCET - SB	CSE - 23, TOTAL- 25
2	CTF-Capture The Flag	06/03/2024	Dr. Neha Nandal	IEEE-CS of GCET - SB	CSE - 20, TOTAL-40
3	Logic Blitz (in BHASWARA-2024)	21/03/2024	Dr. Neha Nandal	IEEE-CS of GCET - SB	CSE-13, TOTAL-25
4	Buzz Code (in BHASWARA-2024)	21/03/2024	Dr. Neha Nandal	IEEE-CS of GCET - SB	CSE-11, TOTAL-16







Geethanjali College of Engineering and Technology
Department of Computer Science and Engineering

IEEE Computer Society Student Branch
presents

CODEQUIZZ: ML EDITION
WEDNESDAY, FEBRUARY 28, 2024
1:40 PM - 3:40 PM

Round 1: Quiz on Machine Learning
Round 2: ML Problem Statement Based Idea Sharing
Round 3: Cross Word Puzzle on Machine Learning

Contact for Registration
Kanduri Shruthi
(Secretary- IEEE CS)
90598 67668
D Krishna Chaitra
75690 44679
Faculty Advisor (IEEE-CS)
Dr. Neha Nandal

Team Composition:
Each team can have 5 members
(One of them must be an IEEE member)

Registration Fees:
NIL

Registrations will be closed on receiving first 5 teams

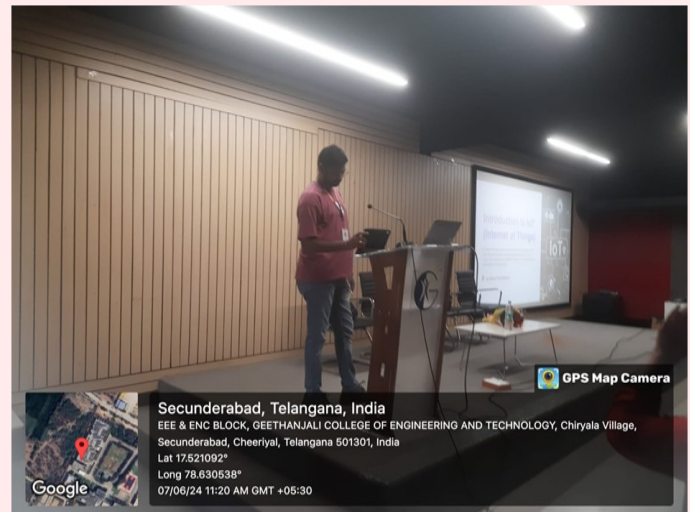
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IEEE-Computer Society of GCET - Student Branch events

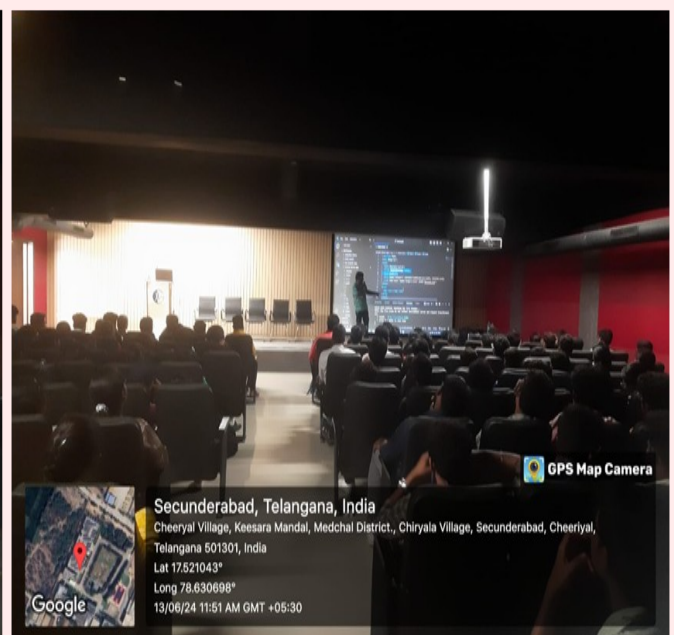
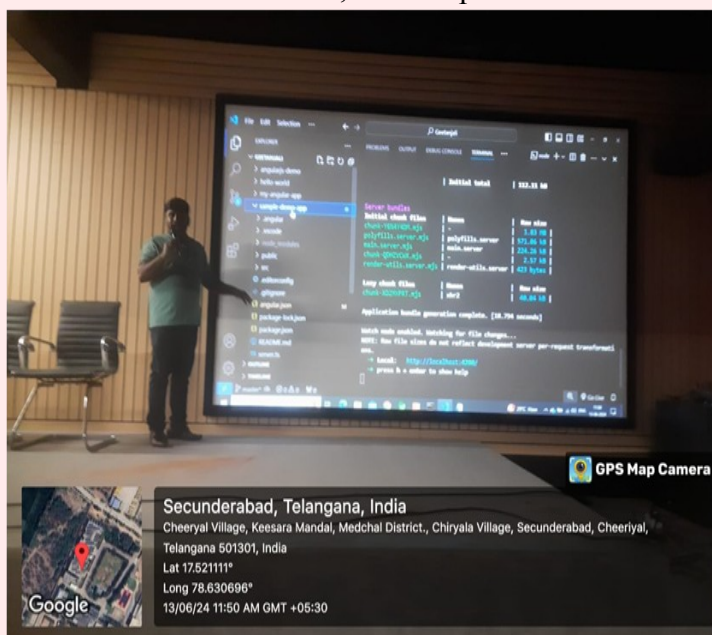
Guest Lectures/Workshops conducted for Students

- ♦ **Guest Lecture on “Internet of Things Applications”** was conducted for III Year CSE students on 07th June, 2024. The resource person for the guest lecture was **Mr. Madhu Parvathaneni**, Solutions Architect & CEO. A Total of 205 students attended the program. The Coordinator for the guest lecture was Mr. M. Srinivas, Associate Professor, CSE Department and Mr. J. Sudhakar, Associate Professor, CSE Department.



Guest Lecture on “Internet of Things Applications”

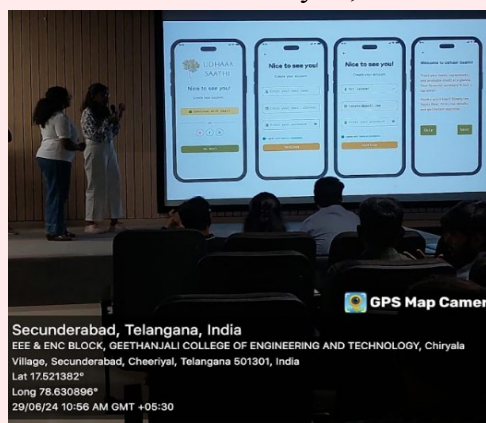
- ♦ **Guest Lecture on “Angular JS”** was conducted for II Year CSE students on 13th June, 2024. The resource person for the guest lecture was **Mr. Anil Kumar Banti**, Technical Lead, HCL Technologies, Hyderabad. A Total of 234 students attended the program. The Coordinator for the guest lecture was Mr. M. Srinivas, Associate Professor, CSE Department and Mr. J. Sudhakar, Associate Professor, CSE Department.



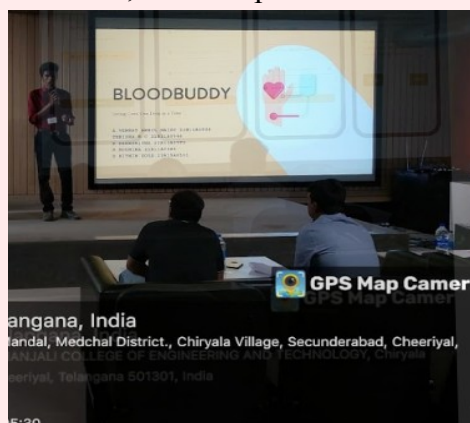
Guest Lecture on “Angular JS”

Workshops/Seminars conducted for Students

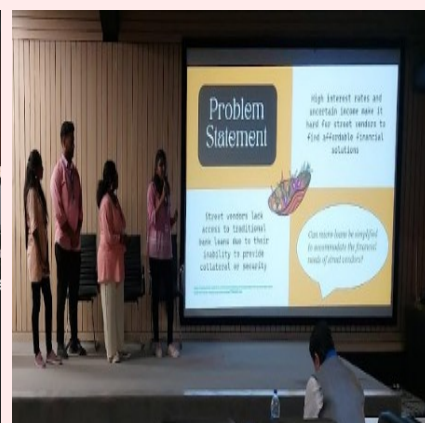
- ♦ A Workshop on “Design Thinking” course by Industry experts was conducted for II Year CSE students, held from 24-03-2024 to 24-07-2024. The resource persons for the workshop were **Mr. Pankaj Diwan**, CEO ,IdeaLabs Future Tech Ventures, **Mr. Avneesh Bhatnagar**, ServiceNow, **Mr. Ramesh Swaminathan**, RealPage India, **Srikanth Rangavajhala**, Amazon Web Services(AWS), **Mr. Sai Shyam Orugunti**, **Mr. Sirish Puppala**, **Mr. Manish Gupta**, SAP India. A Total of 344 students attended the workshop. The Coordinator for the workshop was Dr. K. Krishna Jyoti, Associate Professor, CSE Department.



Secunderabad, Telangana, India
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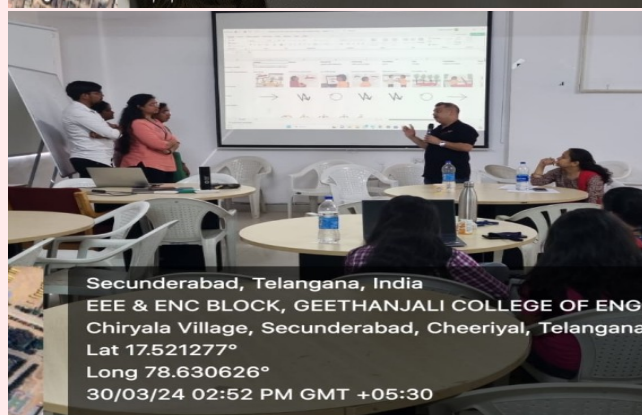
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Secunderabad, Telangana, India
Cheeriyal Village, Keesara Mandal, Medchal, Secunderabad, Cheeriyal, Telangana 501301, India
Lat 17.521248°
Long 78.630673°
09/03/24 10:40 AM GMT +05:30



Secunderabad, Telangana, India
EEE & ENC BLOCK, GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY, Chiryala Village, Secunderabad, Cheeriyal, Telangana 501301, India
Lat 17.521277°
Long 78.630626°
30/03/24 02:52 PM GMT +05:30

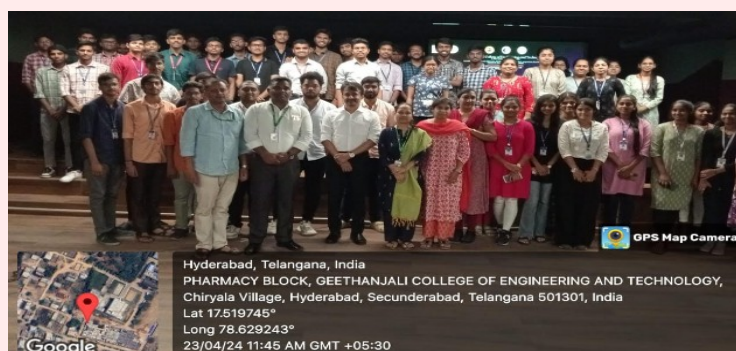


Secunderabad, Telangana, India
GJCH+4GG, Cheryaal, Secunderabad, Cheeriyal, Telangana 501301, India
Lat 17.520436°
Long 78.628812°
30/03/24 10:31 AM GMT +05:30

Workshop on “Design Thinking” course

Workshops/Seminars conducted for Students

- ♦ A Session on “**Problem Solving and Ideation**” was organized by IIC Cell and CSE Department, held on 8th January, 2024. The Resource person for the session was **Mr. Saiesh Parimi**, Senior Software Engineer, Magnit Global Pvt. Ltd. A Total of 27 CSE students were participated in the session.
- ♦ National Youth Day Celebration – “**Memethon**” on “**Youth and Technology**” event was organized by IIC Cell and CSE Department, held on 12th Jan,2024. A Total of 06 CSE students were participated in the event.
- ♦ “**National Startup Day - Motivation Session**” was organized by IIC Cell and CSE Dept., held on 20th January, 2024. The Resource person for the session was **Mr. D. Srinivas**, Ex. Sr. Vice President, Broad Ridge Financial Solutions, and **Mr. P. Mohan**, Sr. Data Scientist. A Total of 20 CSE students were participated in the session.
- ♦ A **Workshop** on “**Prototype/Process Design and Development**” was organized by IIC Cell and CSE Dept., held on 05th March, 2024. The Resource person for the session was **Mr. Rayapati Raj Thota**, Mentor/Advisor Stanford Seed, T-hub. A Total of 27 CSE students were participated in the workshop.
- ♦ A Session on “**Business Communication**” event was organized by IIC Cell and CSE Dept., held on 23rd April, 2024. The Resource person for the session was **Mr. RVG Kulkarni**, Entrepreneur Coach. A Total of 08 CSE students were participated in the session.



Training Programs/Student Development Programs

- ♦ Training Program on “**Aptitude / Logical Reasoning**” was conducted for B.Tech. CSE III Year students during the period 12th February, 2024 to 25th June, 2024 on every Monday and Tuesday in a week. The CSE department faculty coordinator for the training program was Ms. G. Santoshi, Assistant Professor, CSE Dept., GCET. A Total of 73 students attended the training program. The resource person for the training program was faculty from **Cantilever Labs**.
- ♦ Training Program on “**Advanced Programming Skills**” was conducted for B.Tech. CSE - III Year students from 04th March, 2024 to 04th June, 2024, two days in a week. A Total of 73 students participated in the training program. The resource persons for the training program were **Mr. Amit Bansal, Founder**, Smart Interviews and **Ms. K. Anusha**, Smart Interviews, Hyderabad.



Training Program on “Advanced Programming Skills”

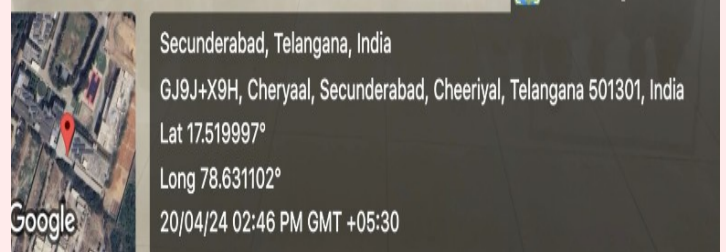
Industrial Visit

- ♦ A **Industrial Visit to “T-HUB”**, Hyderabad, held on 22nd February, 2024. A Total of 176 students and Five faculty members have visited the “T-HUB”.



Value Added Courses conducted for Students

- ♦ A Value Added Course on “IPBL in Data Science & Machine Learning” (80 Hours course) was conducted for B.Tech. III Year CSE students from 07th October, 2023 to 04th May, 2024 on every Saturday in a week. A Total of 59 CSE students attended the program. The resource person for “IPBL in Data Science & Machine Learning” course was **Mr. P. Mohan**, Senior Data Scientist, Tech Mahindra and **Mr. Y.V.N Phani Kishore**, Senior Software Engineer, AccelQ, Hyderabad. The Coordinator for the IPBL was Dr. K. Kamakshaiah, Associate Professor, CSE Dept., GCET and Mr. E. Mahender, Sr. Assistant Professor, CSE Dept., GCET.



IPBL in Data Science & Machine Learning

BHASWARA 2K24

- ◆ 17th National Level Technical and Management Fest - BHASWARA 2K24 was held on 21st and 22nd March 2024, organized by School of Computer Science and Informatics department. The overall convener for BHASWARA 2024 was **Dr. L. Kiran Kumar Reddy**, Associate Professor, CSE-DS Department.
- ◆ CSE department faculty coordinators for BHASWARA 2024 were **Dr. Neha Nandal**, Associate Professor, CSE Dept., **Dr. R.V. Sudhakar**, Associate Professor, CSE Dept.
- ◆ The CSE department organized 6 events as a part of BHASWARA 2024, including BUZZ CODE, CODE-E-THON, LOGIC BLITZ, PROJECT EXPO, BOUNCE BARRIERS and MOVIE MARATHON events held on 21st March, 2024, and Project Presentation, Paper Presentation, and Poster Presentation events held on 22nd March, 2024.



BHASWARA 2K24

CSE department has organized Six Events. The particulars of Winners - BHASWARA 2024 are indicated below:

PROJECT EXPO EVENT WINNERS LIST:

Date of Event	Faculty Coordinator	Prize Won	Student Name/ Roll Number/ College Name
21-03-2024	Mr. V.Shiva Narayana Reddy, Mrs. E.Vijaya	I	K Sri Krishna Koushik (20R11A05E5)-GCET V.V.S.S. Eshwar (20R11A05H9)-GCET Mekala Kiran Kumar (21R15A0516)-GCET
		II	K Anusha (20R11A05E6)-GCET Prayani (20R11A05E7)-GCET Rithika (20R11A05F4)-GCET
		III	Rishitha (23R11A6661)-GCET Ratnala Neha (23R11A05T7)-GCET Yashwanth (23R11A67A4)-GCET
		CONSOLATION	A Lakshmi Jayanth (20R11A0501)-GCET K. Madhava (20R11A0522)-GCET Renesh Krishna chandu (20R11A0541)-GCET

BOUNCE BARRIERS Event Winners List:

Date of Event	Faculty Coordinator	Prize Won	Student Name/ Roll Number/ College Name
21-03-2024	Mrs. S. Radha, Mrs. G.Santoshi	I	G.Shivanand - (Loyola College) A.Rohan - (Loyola College) P V Karthik (Avinash College)
		II	K. Sai Rakshith (22R11A05G2) - GCET M Vinay (22R11A67C5) - GCET U. Bhanu Sujith(22R11A67E2) – GCET
		III	Anudeep (22R11A6939) - GCET Rugved (22R11A6905) - GCET Thribhuvan (22R11A6938) - GCET

MOVIE MARATHON Event Winners List:

Date of Event	Faculty Coordinator	Prize Won	Student Name/ Roll Number/ College Name
21-03-2024	Mr. D. Venkateswarlu, Mrs. M. Viswashanthi	I	Irfan (21R11A04R3) - GCET Rohini (21R11A0466) - GCET Nikhil (21R11A0459) - GCET
		II	Sanjay B (21R11A66E9) - GCET Nithin G (21R11A66F9) - GCET Praneeth K(21R11A66G6) - GCET

BHASWARA 2K24**LOGIC BLITZ Event Winners List:**

Date of Event	Faculty Coordinator	Prize Won	Student Name/ Roll Number/ College Name
21-03-2024	Mr. G. Krishna Lava Kumar, Mr. J. Sudhakar	I	V. Harish (22R11A05N7) - GCET N.karthekeya (22R11A05M6) - GCET B.Vikas (22R11A0551) – GCET
		II	A.Pallavi Nagalakshmi (22R11A0596) - GCET A.Sravya sree (22R11A0598) - GCET G.Ramya Sree (22R11A05B4) - GCET D.Sri Laxmi Prasanna (23R11A05V6) - GCET

BUZZ CODE Event Winners List:

Date of Event	Faculty Coordinator	Prize Won	Student Name/ Roll Number/ College Name
21-03-2024	Dr. K. Raghu, Ms. A.Abhilasha	I	P Aditi Sainath (22R11A05M8) - GCET Manaswini (22R11A05M3) - GCET Chaitra (22R11A05N7) – GCET
		II	Ayan Khan (23R11A66L9) - GCET P Shrimanth (23R11A66Q9) - GCET

CODE-E-THON Event Winner List:

Date of Event	Faculty Coordinator	Prize Won	Student Name/ Roll Number/ College Name
21-03-2024	Dr. K. Raghu, Ms. A.Abhilasha	I	B. Gopalkrishna (21R11A05F6) - GCET T. Mahesh (22R15A0522) - GCET
		II	V. L. Deepak GCET (21R11A66K1) - GCET K. Srujana - SITS college

**Buzz Code & Logic Blitz Event**

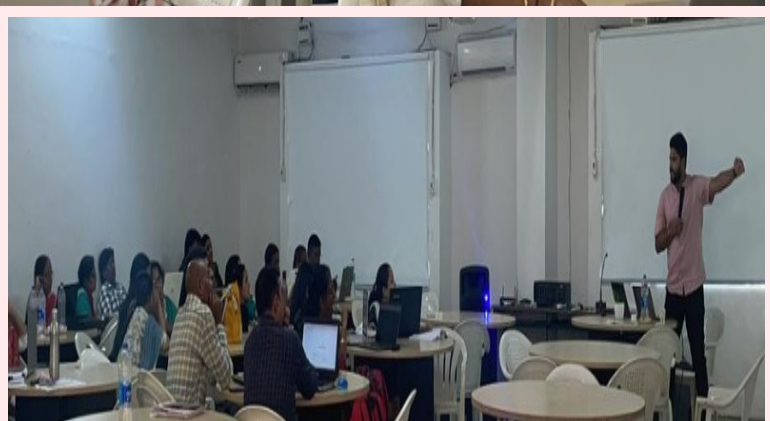
Project Expo:



Bounce Barriers & Movie Marathon Event

Faculty Development Programs

- ♦ one week Faculty Development Program on “**Generative AI with LLMs**” was conducted from 26th to 30th April, 2024, organized by the **Department of Computer Science and Engineering** of Geethanjali College of Engineering & Technology. The resource persons for the FDP were **Dr. Amrith Krishan**, Founder and Chief Scientist, Learno.AI, **Mr. Daniel Jadi**, Senior Data Scientist Providence, India, **Dr.S.Nagendra Kumar**, Associate Professor, University Of Hyderabad, **Dr. Sreenivasulu Madichetty**, Senior AI Engineer, Centific **Mr. Prashanth Sahoo**, Generative AI. A Total of 55 faculty members (External faculty: 05, GCET faculty: 50) attended the FDP. The Coordinator for the FDP was Dr.Puja S Prasad, Associate Professor, CSE Dept., GCET.



Faculty Publications during January 2024 to June 2024

S.No.	Faculty Name	Title of the Paper	Journal Name/ Conference	Volume No., Issue No., Page No., ISSN	Month & Year of Publication
1.	Dr S Puja Prasad, Dr. A. Sree lakshmi	Robust facial authentication system using pupillary light reflex for liveness detection of facial images	Computer Modeling in Engineering and Sciences (CMES)	ISSN: 1526-1492, 1526-1506, Volume 139, Issue 1, pp. 725-739 (SCI)	Jan 2024
2.	Sudha Singaraju	Smart Environments	Journal of Emerging Technologies and Innovative	2349-5162, Volume 11, Issue 2, 629-640 (Reputed Journal)	Feb 2024
3.	Dr.Puja S prasad, A Shiva Jyothi, S Radha	Impact of Metaverse on e-Learning Domain -A Survey	Indian Journal of Technical Education.(IJTE)	0971-3034, Volume 64, Issue 6, 103-107 (UGC)	Feb 2024
4.	Dr.Puja S prasad, Dr. Madhuri Agarwal Gupta, Dr. Neha Nandal	B_list Chain – A Smart Contract Based Solution to Maintain A Consolidated List of Blacklisted Passport for Enhancing Nation Security	Indian Journal of Technical Education.(IJTE)	0971-3034, Volume 64, Issue 6, 103-107 (UGC)	Feb 2024
5.	Dr Neha Nandal	A Comparative Analysis of Feature Selection Algorithms in Cross Domain Sentiment Classification	Recent Advances in Computer Science and Communications, Bentham Science Publishers	2666-2558, Volume 17, Issue 3, (SCOPUS)	Feb 2024
6.	Dr Neha Nandal	Artificial Intelligence and Machine Learning based Se-cured Cardiology: A Meta-Analysis of cyber-risk in cardiology	Naturalista Campano, Additional WOS+ UGC	1827-7160, Volume 28, Issue 1, 501-509 (UGC)	Feb 2024
7.	G Krishna Lava kumar	An Accurate Prediction Framework for Cardiovascular Disease Using CNN	Journal of Information Technology Management	2008-5893, Vol. 16, Issue 1, pp. 27-43 (SCOPUS)	March 2024

Faculty Publications during January 2024 to June 2024

S.No.	Faculty Name	Title of the Paper	Journal Name/ Conference	Volume No., Issue No., Page No., ISSN	Month & Year of Publication
8.	R Sukrutha, G Udayasri	A Study of the prediction Algorithm for Identifying Reports of Skin Diseases in Hyderabad	Scope	1177-5653, Volume 14, (SCOPUS)	March 2024
9.	Dr.A. Hari Prasad Reddy, G Udaya sree	Assessing the performance of Advanced Encryption algorithm	Mukth shbd journal	2347-3150, Volume 13, Issue 4, 440-454 (UGC)	April 2024
10.	M Prashanth	HealthDetect7: Multiple Disease Identification Using Machine Learning	IJSRNSC – International Journal of Scientific Research in Network Security and Communication	2321-3256 (Reputed Journal)	April 2024
11.	M Prashanth	Segmentation Of Hard Exudates And Disease Staging Of Diabetic Retinopathy Using UNET Architecture	IJS DR – International Journal Of Science & Engineering Development Research	2455-2631, Volume 9, Issue 4 (Reputed Journal)	April 2024
12.	Dr. K. Krishna Jyothi	A Cloud Based Machine Learning Approach For Blood Cell Classification Using YOLOv5	International Journal Of Scientific Research In Network Security And Communication	2321-3256 (Reputed Journal)	April 2024
13.	P. Krishna Rao	Facial Expression Analysis for Stress Detection in IT Professionals: A Machine Learning and Image Processing Framework	IJS DR – International Journal Of Science & Engineering Development Research	ISSN:2455-2631, Volume 9, Issue 4, (Reputed Journal)	April 2024

Faculty Publications during January 2024 to June 2024

S.No.	Faculty Name	Title of the Paper	Journal Name/ Conference	Volume No., Issue No., Page No., ISSN	Month & Year of Publication
14.	Dr.K.Krishna Jyothi	Copy-Move Image Forgery Detection Using CNN and SIFT Algorithm	IJSRNSC – International Jour- nal of Scientific Research in Net- work Security and Communication	2321-3256 (Reputed Journal)	April 2024
15.	Dr. R.V Sudhakar	Medicinal Plant Iden- tification via Res- Net50 Transfer Learning	IJSDR – Interna- tional Journal Of Science & Engi- neering Develop-	ISSN:2455-2631, Volume 9, Issue 4 (Reputed Journal)	April 2024
16.	P Krishna Rao	Dynamic Web Weaver	IJSDR – Interna- tional Journal Of Science & Engi- neering Develop- ment Research	IJSDR – Interna- tional Journal Of Science & Engi- neering Develop- ment Research (Reputed Journal)	April 2024
17.	S. Radha	Enhancing Cyber Attack Resilience Using Machine Learning	IJSDR – Interna- tional Journal Of Science & Engi- neering Develop- ment Research	ISSN:2455-2631, Volume 9, Issue 4, page no.1386 - 1390, (Reputed Journal)	April 2024
18.	S. Radha	Network Attack Detection Using Machine Learning	IJSDR – Interna- tional Journal Of Science & Engi- neering Develop- ment Research	ISSN:2455-2631, (Reputed Journal)	April 2024
19.	D. Venkateswarlu	Real-Time Driver Drowsiness Detece- tion and Email Alert System using CV	IJSDR – Interna- tional Journal Of Science & Engi- neering Develop-	ISSN: 2455-2631, Volume 9 Issue 5, (Reputed Journal)	May 2024
20.	G. Santhoshi	Crypto Analysis and Visualization using Python and Streamlit	IJSDR – Interna- tional Journal Of Science & Engi- neering Develop-	ISSN: 2455-2631, Volume 9, Issue 6 (Reputed Journal)	May 2024

Faculty Publications during January 2024 to June 2024

S.No.	Faculty Name	Title of the Paper	Journal Name/ Conference	Volume No., Issue No., Page No., ISSN	Month & Year of Publication
21.	A. Abhilasha	A Novel Method Based On The Random Over Sampling Technique For Identifying The Most Effective Machine Learning Strategies For Imbalanced Data	JOURNAL OF SOUTH WEST-JIAOTONG UNIVERSITY	0258-2724, Volume 59, issue 1, 1120-1133 (SCOPUS)	MAY 2024
22.	M. Vishwanthi	Network Intrusion Detection Using Machine Learning With Feature Selection	mukthshabd journal	ISSN: 2347-3150 Volume XIII, Issue 5, (UGC)	MAY 2024
23.	A. Abhilasha	Amazon Virtual Private Cloud Experimental and Application	International Journal for Research in Science Engineering & Technology (IJRSET)	2394-739X, Volume 10, Issue 5, Page No:10-18 (UGC)	MAY 2024
24.	Dr. Madhuri	Real-Time Traffic Observation and Analysis System	International Journal of Scientific Development and Research (IJS DR)	ISSN: 2455-2631, Volume 9, Issue 6, pp-183-189, (Open Access)	JUNE 2024
25.	Dr. Madhuri	Effective Machine Learning Techniques For Stock Price Forecasting	International Journal of Advances in Business and Management Research (IJABMR)	eISSN: 2584-1718, Volume 1, Issue 4, pp-42-50 (Open Access)	JUNE 2024
26.	V. Sravanthi	Pharmaceutical Synthesis and Disclosure Approach Using Naïve Bayesian Method in Machine Learning	International Journal of Scientific Research in Engineering and Management (IJSREM)	ISSN: 2582-3930, Volume: 08, Issue: 06 (Open Access)	JUNE 2024

CSE Student Placements of 2020-2024 Batch

S.NO.	Name of the Company	Number of CSE Students Placed	Salary Package (LPA)
1	AMAZON	1	46
2	VTs	1	12
3	REAL PAGE	2	10
4	OC TANNER	1	8.5
5	CODEYOUNG	1	7.36
6	MOVIDU	1	7
7	ZEMOSO	1	6.87
8	PLANET SPARK	1	6.5
9	PIE INFOCOMM	6	6.5
10	HIKEEDU	5	6.42
11	ADP	2	6
12	BEAUTIFUL CODE	1	6
13	CAW STUDIO	1	6
14	CONNOR IT SOLUTIONS	1	6
15	NALSOFT	2	5.5
16	UNSCHOOL	2	5.3
17	RINEX	2	5.2
18	BLUSAPPHIRE	2	5
19	COAPPS	6	5
20	ENHI SECURE	6	4.6
21	ACCENTURE	18	4.5
22	CNTRL S CLOUD	8	4.5
23	COGNIZANT	1	4.5
24	KING LIFESTYLE	2	4.5
25	VODAFONE	8	4.5
26	TEACH NOOK	7	4.5
27	UST	5	4.25
28	SCIATIVE	1	4.15
29	ACADEMOR	10	4
30	CORIZO	2	4
31	EDZEETA	1	4
32	EXTERNS CLUB	4	4
33	UTSAV BUSINESS SOLUTIONS PVT. LTD.	1	4

CSE Student Placements of 2020-2024 Batch

S.NO.	Name of the Company	Number of CSE Students Placed	Salary Package (LPA)
34	ROKU DIGITALS	5	4
35	AVA INTERN	1	3.5
36	TECH MAHINDRA	2	3.5
37	SKILL HACC	3	3.5
38	SAVANTIES	5	3.5
39	SASHAKT HR SEVICES	1	3.5
40	CHETU	1	3
41	COLLABERA	2	3
42	KODNEST	1	3
43	VTs	2	3
44	TECH MAHINDRA BPS	1	3
45	TELEPERFORMANCE	1	2.2
46	TEKSYSTEMS GLOBAL SERVICES PVT. LTD.	1	1.8

CSE Student Placements of 2020-2024 Batch
(SINGLE PLACEMENT OFFER)

S.No.	Roll Number	Student Name	Name of the Company	Salary Package (LPA)
1	19R11A05M5	KATEPALLY SATHVIKA	VTs	12LPA
2	20R11A0501	A LAKSHMI JAYANTH	UST	4.25LPA
3	20R11A0504	KRISHNA AKKENAPALLI	SKILL HACC	3.5LPA
4	20R11A0505	ANJURI KUSUMA	TEACH NOOK	4.5LPA
5	20R11A0506	BETHA VEERA VENKATA SURYA VINAY	ACADEMOR	4LPA
6	20R11A0509	BODLA SHRIYA	CODEYOUNG	7.36LPA
7	20R11A0511	BONGONI VAISHNAVI	CNTRL S CLOUD	4.5LPA
8	20R11A0515	DWARAKA AARTI	CNTRL S CLOUD	4.5LPA
9	20R11A0517	GANGISETTY VENKATA MYTHILI	VODAFONE	4.5LPA
10	20R11A0519	RASAGNA GULLAPALLI	HIKEEDU	6.42LPA
11	20R11A0523	TANVI SHIVANI KATTAMOORI	CNTRL S CLOUD	4.5LPA
12	20R11A0527	K KAVYA SRI	VODAFONE	4.5LPA
13	20R11A0528	KONDA USHA NEHA	REAL PAGE	10LPA
14	20R11A0529	KORUBILLI LAXMI SWAROOPA	CAW STUDIO	6LPA
15	20R11A0531	LINGOJI RAMYA SRI	ROKU DIGITALS	4LPA
16	20R11A0532	MAHESH MUNNUR	RINEX	5.2LPA
17	20R11A0534	VASAVI MALAVATH	ROKU DIGITALS	4LPA
18	20R11A0538	MOHAMMED FARHAAN HUSSAIN	ROKU DIGITALS	4LPA
19	20R11A0541	PENUMANTRA AMRUTHA SAI SRI	ACCENTURE	4.5LPA
20	20R11A0544	RICHA WAKODE	PIE INFOCOMM	6.5LPA
21	20R11A0552	SHRIKERA BERAAR	VTs	3LPA
22	20R11A0553	THIRUNAGARI KRANTHI KIRAN	KING LIFESTYLE	4.5LPA
23	20R11A0556	TANNERU YAKSHITHA	RINEX	5.2LPA
24	20R11A0557	UDAY KIRAN THADURU	ACCENTURE	4.5LPA
25	20R11A0559	SINDHU VARALA	PLANET SPARK	6.5LPA
26	20R11A0561	AKELLA KRISHNA SRI HARSHA	ACCENTURE	4.5LPA
27	20R11A0562	ADIMULAM VAMSHI KRISHNA	BLUSAPPHIRE	5LPA
28	20R11A0563	ADURTHI NAGA HARSHINI	CNTRL S CLOUD	4.5LPA
29	20R11A0564	ANNADANAM ABHIRAM	ADP	6LPA

CSE Student Placements of 2020-2024 Batch
(SINGLE PLACEMENT OFFER)

S.No.	Roll Number	Student Name	Name of the Company	Salary Package (LPA)
30	20R11A0566	APOORVA GITTI	PIE INFOCOMM	6.5LPA
31	20R11A0568	SHARATH KUMAR BARI	OC TANNER	8.5LPA
32	20R11A0572	CHITTURI ARUNA	ACADEMOR	4LPA
33	20R11A0573	SREE SAI SOUJANYA DUVVURI	AMAZON	46LPA
34	20R11A0574	DAIDA MANIDEEP	TECH MAHINDRA	3.5-5.5 LPA
35	20R11A0575	ENUGULA POOJITHA	NALSOFT	5.5LPA
36	20R11A0576	G PHALGUNI	ENHI SECURE	4.6LPA
37	20R11A0577	GOVULA TEJAS	VODAFONE	4.5LPA
38	20R11A0578	GANGI REDDY SAI ASRITHA	VODAFONE	4.5LPA
39	20R11A0579	GANGU DATTHA KRISHNA	UST	4.25LPA
40	20R11A0580	GOPISETTY BHANU SRI	ACCENTURE	4.5LPA
41	20R11A0582	DHRUTI GUTHIKONDA	CORIZO	4LPA
42	20R11A0583	JAYANTHI HEMA HARSHITHA	COLLABERA	3LPA
43	20R11A0584	ANUMANDLA HRISHITHA	VODAFONE	4.5LPA
44	20R11A0585	RENUKA ILAPANDA	ACCENTURE	4.50LPA
45	20R11A0586	SANJAY KUMAR REDDY JEEDIPELLI	COGNIZANT	4.5LPA
46	20R11A0587	GREESHMA KOTHAPALLY	ACCENTURE	4.5LPA
47	20R11A0588	K ROHITHA	SCIATIVE	4.15LPA
48	20R11A0590	PAVANI PRIYA KOLETI	CONNOR IT SOLUTIONS	6LPA
49	20R11A0592	KOSGI AAKANKSHA REDDY	PIE INFOCOMM	6.5LPA
50	20R11A0593	KHUSHI JHA	SAVANTIES	3.5LPA
51	20R11A0594	LANKA BHANU PRASAD	ACCENTURE	4.5LPA
52	20R11A0596	MADHI SUKRITA	ACCENTURE	4.5LPA
53	20R11A0597	MADIRAJU SRIRAM	CORIZO	4LPA
54	20R11A0598	SAI SRI VISHNU MARAMAMULA	PIE INFOCOMM	6.5LPA
55	20R11A0599	PRIYA SPANDANA MENDU	TEKSYSTEMS GLOBAL SERVICES PVT. LTD.	1.80 LPA
56	20R11A05A3	RAMA RAHUL	ACCENTURE	4.5LPA
57	20R11A05A4	RAMADUGU GAYATHRI SUSMITHA	CNTRL S CLOUD	4.5LPA
58	20R11A05A5	RAMINENI BHAVYA	ACCENTURE	4.5LPA

**CSE Student Placements of 2020-2024 Batch
(SINGLE PLACEMENT OFFER)**

S.No.	Roll Number	Student Name	Name of the Company	Salary Package (LPA)
59	20R11A05A6	JYOTHI SURANA	HIKEEDU	6.42LPA
60	20R11A05A7	SAI ASHRITH S	UST	4.25LPA
61	20R11A05A8	SAMUDRALA AKSHAY	VODAFONE	4.5LPA
62	20R11A05A9	RAJASHEKAR REDDY SAMULA	EDZEETA	4LPA
63	20R11A05B0	SREEYA SANKULA	EXTERNS CLUB	4-7LPA
64	20R11A05B1	SIGHAKOLLI GAYATHRI SRI LASYA	ACCENTURE	4.5LPA
65	20R11A05B5	TEJASWI GUDAPATI	UNSCHOOL	5.3LPA
66	20R11A05B6	V.LAXMANA VYAAS	VODAFONE	4.5LPA
67	20R11A05B8	VEMULAPALLI PRAGNA SRI	EXTERNS CLUB	4-7LPA
68	20R11A05C0	YELLAM NITHIN ADITYA	UNSCHOOL	5.3LPA
69	20R11A05C1	A SRI KARAN CHANDRA	ENHI SECURE	4.6LPA
70	20R11A05C2	CHANDANA AEMIREDDY	CNTRL S CLOUD	4.5LPA
71	20R11A05C3	AKHIL VELATI	UST	4.25LPA
72	20R11A05C4	PRATHUSHA AKULA	ACCENTURE	4.5LPA
73	20R11A05C5	ANAMALLA AKSHITH	COAPPS	5LPA
74	20R11A05C6	Mr. ANIKETH KAMLEKAR	SKILL HACC	3.5LPA
75	20R11A05C7	KEERTHANA ARKATALA	CNTRL S CLOUD	4.5LPA
76	20R11A05C8	AVULA AJAY	ZEMOSO	6.87LPA
77	20R11A05C8	AVULA AJAY	TECH MAHINDRA	3.5LPA
78	20R11A05D2	CHITAKULA VIVEKA	TELEPERFORMANCE	2.20LPA
79	20R11A05D5	ERUKULLA ANISHA	ACCENTURE	4.5LPA
80	20R11A05D8	GIRIMAPURAM CHANDRA LOKESH CHARY	UST	4.25LPA
81	20R11A05D9	GOUDA SURYANI	COAPPS	5LPA
82	20R11A05E0	MUDITH REDDY GUDIPELLY	REAL PAGE	10LPA
83	20R11A05E2	GUNJA VIJAY KUMAR	ENHI SECURE	4.6LPA
84	20R11A05E5	KAPAKA SRI KRISHNA Koushik	BLUE SAPPHIRE	5LPA
85	20R11A05E6	ANUSHA KASTURI	CNTRL S CLOUD	4.5LPA
86	20R11A05E7	KOMATIREDDY SATHWIK PRAYANI	SAVANTIES	3.5LPA
87	20R11A05F2	MARKA SAITEJA GOUD	ACADEMOR	4LPA

CSE Student Placements of 2020-2024 Batch
(SINGLE PLACEMENT OFFER)

S.No.	Roll Number	Student Name	Name of the Company	Salary Package (LPA)
88	20R11A05F4	P. RITHIKA	ACADEMOR	4LPA
89	20R11A05F7	PABBA SHREYA	TECH MAHINDRA BPS	3LPA
90	20R11A05G5	RAMINI POOJITHA	CHETU	3LPA
91	20R11A05G7	YUKTHA SURAMPALLY	PIE INFOCOMM	6.5LPA
92	20R11A05G9	SHAGUFTHA	TEACH NOOK	4.5LPA
93	20R11A05H1	SUMANTH SUNKARI	COAPPS	5LPA
94	20R11A05H4	THOGARU SAI KARTHIK	TEACH NOOK	4.5LPA
95	20R11A05H7	VARAGANTI NITHIN	COAPPS	5LPA
96	20R11A05H8	VEMULA MANASA	VODAFONE	4.5LPA
97	20R11A05H9	VENKATA SESA SAI ESHWAR VUD-HANTHI	TEACH NOOK	4.5LPA
98	20R11A05J0	YARLAGADDA VISHNU VARDHAN BABU	SAVANTIES	3.5LPA
99	20R11A05J2	VEPADINNA VAISHNAVI REDDY	ACADEMOR	4LPA
100	20R11A05J3	ANKAM SAAHITHI	CORIZO	4LPA
101	20R11A05J4	ASHRITH GADEELA	SAVANTIES	3.5LPA
102	20R11A05J9	MONISH	EXTERNS CLUB	4-7LPA
103	20R11A05K2	DHARAVATH ROUNITH	ACCENTURE	4.5LPA
104	20R11A05K3	EPPALAPALLI HIRANMAYA SHAR-VANI	ACCENTURE	4.5LPA
105	20R11A05K4	GANJIMALA DEVASENA	TEACH NOOK	4.5LPA
106	20R11A05K5	GAVVALA ANUSHA	SASHAKT HR SEVICES	3.5 LPA
107	20R11A05K6	KARTHIK GOGINENI	ACCENTURE	4.5LPA
108	20R11A05K7	GURRAM SRI VAISHNAVI	ENHI SECURE	4.6LPA
109	20R11A05K8	HANIFA	HIKEEDU	6.42LPA
110	20R11A05K9	HARI SARADA	ADP	6LPA
111	20R11A05L0	HARIPRIYA GURLA	HIKEEDU	6.42LPA
112	20R11A05L2	KANDIPATI BHANUSRI	ACADEMOR	4LPA
113	20R11A05L9	MAMIDYALA DEEPIKA	ACCENTURE	4.5LPA
114	20R11A05M0	MOGILI SATHVIKA REDDY	MOVIDU	7LPA
115	20R11A05M1	MOHAMMAD SHOAIB	HIKEEDU	6.42LPA

CSE Student Placements of 2020-2024 Batch
(SINGLE PLACEMENT OFFER)

S.No.	Roll Number	Student Name	Name of the Company	Salary Package (LPA)
116	20R11A05M2	MD HAJI ALI KHAN	KING LIFESTYLE	4.5LPA
117	20R11A05M3	SUMANTH SUNKARI	ACADEMOR	4LPA
118	20R11A05M3	POLU NITHISH REDDY	COLLABERA	3LPA
119	20R11A05M4	M RIDDHI	ENHI SECURE	4.6LPA
120	20R11A05M5	N MURALI KRISHNA	COAPPS	5LPA
121	20R11A05M7	NAMITHA JOANNE NETHALA	COAPPS	5LPA
122	20R11A05M8	SANDEEP KUMAR NANGUNURI	UTSAV BUSINESS SOLUTIONS PVT. LTD.	4 LPA
123	20R11A05N0	PATHE SUBHASREE	ACADEMOR	4LPA
124	20R11A05N1	DEEKSHITHA PAGADALA	ACCENTURE	4.5LPA
125	20R11A05N3	PATNAM SANJANA	SAVANTIES	3.5LPA
126	20R11A05N9	SATHYAVADA PAVAN KIRITY	AVA INTERN	3.5LPA
127	20R11A05P0	SINGAM SAI KIRAN	ENHI SECURE	4.6LPA
128	20R11A05P4	MADHAVAN VARIKOLU	EXTERNS CLUB	4-7LPA
129	20R11A05P7	EDARA KARTIK	TEACH NOOK	4.5LPA
130	20R11A05P8	NISHIKANTH VIDEM	TEACH NOOK	4.5LPA
131	20R11A05P9	VUTHUNOORI LAHARI	PIE INFOCOMM	6.5LPA
132	21R15A0502	KOTHAMASU SAI SLOKA	ROKU DIGITALS	4LPA
133	21R15A0506	SANIKE SREE VARSHA	SKILL HACC	3.5LPA
134	21R15A0508	GUDE NITHIN KUMAR	NALSOFT	5.5LPA
135	21R15A0512	DANTHURI NAVYASREE GOUD	KODNEST	3LPA
136	21R15A0515	PUTTA PAVANI	ACADEMOR	4LPA
137	21R15A0516	MEKALA KIRAN KUMAR	ROKU DIGITALS	4LPA
138	21R15A0523	LAHARI VUTLAPALLY	BEAUTIFUL CODE	6LPA
139	21R15A0524	BIXAM REDDY YEGAMATI	ACADEMOR	4LPA

Faculty Development Programs/Workshops/Refresher Courses Attended by Faculty

S.No.	Faculty Name	Nature of Program Attended	Name of the FDP/ Workshop/ Refresher Course	Date (s) Held	Held at Institute/ Organization
1	P.Sobha Rani	FDP	Cloud Computing	01-01-2024 to 30-04-2024	NPTEL AICTE
2	S. DurgaPrasad	FDP	Salesforce Administrator	08-01- 2024 to 12-01-2024	ICT Academy in association with Salesforce
3	D. Bheekya	FDP	Salesforce Administrator	08-01- 2024 to 12-01-2024	ICT Academy in association with Salesforce
4	M. Vishwashanthi	NFDP	block chain technology	08-01- 2024 to 12-01-2024	SR University in Collaboration with ExcelR
5	V. Sravanthi	Training Program	Fundamentals of Full Stack Development	09-01-2024 to 23-01-2024	ExcelR solutions.
6	P. Krishna Rao	Workshop	Quantum Computing and Security	15-01-2024 to 19-01-2024	Gandhi Inst.of Engg.&Tech. University, Odisha
7	P.Sobha Rani	FDP	Vulnerability Assessment & Penetration Testing	19-01-2024 to 20-01-2024	Centre of Excellence in Cyber Security, JNTUH
8	Dr. Madhuri Gupta	Training Program	National Intellectual Property Awareness Mission	19-01-2024	Intellectual Property Office, India
9	Dr. Neha Nandal	Training Program	National Intellectual Property Awareness Mission	19-01-2024	Intellectual Property Office, India
10	Dr. Puja S Prasad	Training Program	National Intellectual Property Awareness Mission	19-01-2024	Intellectual Property Office, India
11	P. Krishna Rao	Training Program	National Intellectual Property Awareness Mission	19-01-2024	Intellectual Property Office, India
12	G. Santhoshi	Training Program	National Intellectual Property Awareness Mission	19-01-2024	Intellectual Property Office, India
13	S. DurgaPrasad	Training Program	National Intellectual Property Awareness Mission	19-01-2024	Intellectual Property Office, India
14	M. Sandhya	FDP	AI Evolution	22-01-2024 to 27-01-2024	Tech Saksham

Faculty Development Programs/Workshops/Refresher Courses Attended by Faculty

S.No.	Faculty Name	Nature of Program Attended	Name of the FDP/ Workshop/ Refresher Course	Date (s) Held	Held at Institute/ Organization
15	Dr. Neha Nandal	FDP	NEP Orientation and Sensitization Programme	23-01-2024 to 31-01-2024	Malviya Mission Teacher Training Center, Central University of Jammu
16	G. Santhoshi	FDP	Internet of Things	29-01-2024 to 02-02-2024	ACE Engineering College
17	E. Mahender	FDP	Internet of Things	29-01-2024 to 02-02-2024	ACE Engineering College
18	P. Ushashree	FDP	Research Advancements in Natural Language Processing	29-01-2024 to 02-02-2024	CBIT
19	P. Sobha Rani	FDP	Research Advancements in Natural Language Processing	29-01-2024 to 02-02-2024	CBIT
20	K. Durga Kalyani	FDP	Research Advancements in Natural Language Processing	29-01-2024 to 02-02-2024	CBIT
21	Savitri Vishwa Jyothi	FDP	Research Advancements in Natural Language Processing	29-01-2024 to 02-02-2024	CBIT
22	K. Prathima	FDP	Applications of Blockchain Technology	29-01-2024 to 02-02-2024	Institute of Engineering and Management, Kolkata
23	P. Chandra Sekhar Reddy	ATP	Cloud Computing	29-01-2024 to 02-02-2024	Wipro
24	P. Krishna Rao	FDP	Role of Big Data and cloud in the Era of Transformation	29-01-2024 to 03-02-2024	Gates Institute of Technology, Ananthapur, A.P
25	J. Sudhakar	FDP	Cloud Computing: A Hands on Approach with AWS Cloud	29-01-24 to 02-02-2024	SNIST
26	Dr. A.Sree Lakshmi	FDP	Big Data Analytics with Spark	01-02-2024 to 06-02-2024	Chaitanya Bharathi Institute of Technology
27	Sudha Singaraju	FDP	Generative AI	04-02-2024 to 09-02-2024	D.Y Patil College of Engineering, AKURDI, PUNE
28	A. Chandrakala	FDP	Generative AI	04-02-2024 to 09-02-2024	Pantech E-learning

Faculty Development Programs/Workshops/Refresher Courses Attended by Faculty

S.No.	Faculty Name	Nature of Program Attended	Name of the FDP/ Workshop/ Refresher Course	Date (s) Held	Held at Institute/ Organization
29	R.Sukruta	Professional Development Program	Data Science Mastery	05-02-2024 to 10-02-2024	VNR Vignan Jyothi Institute of Engineering and Technology
30	P.Krishna Rao	Professional Development Program	Data Science Mastery	05-02-2024 to 10-02-2024	VNR Vignan Jyothi Institute of Engineering and Technology
31	G. Udaya sri	Professional Development Program	Data Science Mastery	05-02-2024 to 10-02-2024	VNR Vignan Jyothi Institute of Engineering and Technology
32	K.Prathima	FDP	“Deep Learning for Computer Vision and its Applications”	06-02-2024 to 11-02-2024	VNR Vignan Jyothi Institute of Engineering and Technology
33	M.Akhila Reddy	FDP	Deep Learning Solutions in Healthcare	19-02-2024 to 23-02-2024	CBIT
34	A.Chandrakala	FDP	Deep Learning Solutions in Healthcare	19-02-2024 to 23-02-2024	CBIT
35	Sudha Singaraju	National Level PDP	Exploring the Realm of Generative AI for Text and Image Proc-	19-02-2024 to 24-02-2024	VNR Vignan Jyothi Institute of Engineering and Technology
36	K.Prathima	FDP	Deep Learning and Artificial Intelligence	26-02-2024 to 01-03-2024	APPSDC
37	K. Durga Kalyani	FDP	Recent Trends and Applications in Data Science	26-02-2024 to 01-03-2024	Sister Nivedita University
38	Savitri vishwa Jyothi	FDP	Recent Trends and Applications in Data Science	26-02-2024 to 01-03-2024	Sister Nivedita University
39	V.Sravanthi	FDP	Recent Trends and Applications in Data Science	26-02-2024 to 01-03-2024	Sister Nivedita University
40	P Sobha Rani	FDP	Recent Trends and Applications in Data Science	26-02-2024 to 01-03-2024	Sister Nivedita University
41	V.Sravanthi, K.Durga Kalyani	International Conference	International conference on computational science engineering	27-02-2024 to 28-02-2024	REST LABS

Faculty Development Programs/Workshops/Refresher Courses Attended by Faculty

S.No.	Faculty Name	Nature of Program Attended	Name of the FDP/ Workshop/ Refresher Course	Date (s) Held	Held at Institute/ Organization
43	P. Sobha Rani	International Conference	International conference on computational science engineering	27-02-2024 to 28-02-2024	REST Labs
44	Savitri vishwa Jyothi	International Conference	International conference on computational science engineering	27-02-2024 to 28-02-2024	REST Labs
45	V.Shiva Narayana Reddy	FDP	Data Science	11-03-2024 to 15-03-2024	CVR College of Engineering
46	Dr.A.Hari Prasad Reddy	FDP	Data Science	11-03-2024 to 15-03-2024	CVR College of Engineering
47	Dr.K.Kamakshaiah	FDP	Data Science	11-03-2024 to 15-03-2024	CVR College of Engineering
48	Channa Veerayya	FDP	Theory to code :Hands on machine learning , genetic Algorithms& Fuzzy Logic with python	12-03-2024 to 16-03-2024	GCET
49	G. Santhoshi	FDP	Theory to code :Hands on machine learning , genetic Algorithms& Fuzzy Logic with python	12-03-2024 to 16-03-2024	GCET
50	Dr. K. Raghu	FDP	Theory to code :Hands on machine learning , genetic Algorithms& Fuzzy Logic with python	12-03-2024 to 16-03-2024	GCET
51	J.Sudhakar	FDP	Theory to code :Hands on machine learning , genetic Algorithms& Fuzzy Logic with python	12-03-2024 to 16-03-2024	GCET
52	M..Akhila Reddy	FDP	Theory to code :Hands on machine learning , genetic Algorithms& Fuzzy Logic with python	12-03-2024 to 16-03-2024	GCET

Faculty Development Programs/Workshops/Refresher Courses Attended by Faculty

S.No.	Faculty Name	Nature of Program Attended	Name of the FDP/ Workshop/ Refresher Course	Date (s) Held	Held at Institute/ Organization
53	Sudha Singaraju	FDP	Data Science Applications in Real World using Python	18-03-2024 to 22-03-2024	Indira college of Engineering and Management, PUNE
54	P Deeplaxmi	FDP	Data Science Applications in Real World using Python	18-03-2024 to 22-03-2024	Indira college of Engineering and Management, PUNE
55	K. Durga Kalyani	FDP	Data Science Applications in Real World using Python	18-03-2024 to 22-03-2024	Indira college of Engineering and Management, PUNE
56	R. Sukrutha, K. Ashwini	FDP	Data Science Applications in Real World using Python	18-03-2024 to 22-03-2024	Indira college of Engineering and Management, PUNE
57	P. Ushashree	FDP	Data Science Applications in Real World using Python	18-03-2024 to 22-03-2024	Indira college of Engineering and Management, PUNE
59	P. Sobha Rani	FDP	Data Science Applications in Real World using Python	18-03-2024 to 22-03-2024	Indira college of Engineering and Management, PUNE
60	Savitri vishwa Jyothi	FDP	Data Science Applications in Real World using Python	18-03-2024 to 22-03-2024	Indira college of Engineering and Management, PUNE
61	M.Akhila Reddy	FDP	“National Education Policy 2020 - Challenges in implementation in Higher Education	18-03-2024 to 23-03-2024	CBIT
62	Dr.A.Sree Lakshmi	Workshop	Artificial Intelligence Workshop	19-04-2024 to 20-04-2024	Artificial Intelligence Medical & Engineering Researchers Society
63	V.Sravanthi	Workshop	Generative AI & Its Applications	24-04-2024	SRU
64	P.KrishnaRao	FDP	AI insights: Predictive Power of ML,DL and NLP	14-05-2024 to 18-05-2024	Spoorthy Engineering College(A)
65	Dr.A.Sree Lakshmi	FDP	Generative AI models and Applications of Machine Learning	21-05-2024 to 25-05-2024	Shri Vishnu Engineering College for Women

Faculty Development Programs/Workshops/Refresher Courses Attended by Faculty

S.No.	Faculty Name	Nature of Program Attended	Name of the FDP/ Workshop/ Refresher Course	Date (s) Held	Held at Institute/ Organization
66	P.Chandra Sekhar Reddy	FDP	Machine Learning Applications for Engineers	03-06-2024 to 07-06-2024	CBIT
67	R. Sukrutha	FDP	Machine Learning Applications for Engineers	03-06-2024 to 07-06-2024	CBIT
68	P. Ushashree	FDP	Machine Learning Applications for Engineers	03-06-2024 to 07-06-2024	CBIT
69	A. Chandrakala	FDP	deep learning and its applications	10-06-2024 to 14-06-2024	LBRCE
70	D. Jeevan	FDP	Building Scalable Data Engineering and Machine Learning Applications with Hadoop and	11-06-2024 to 15-06-2024	GCET
71	D. Jeevan	FDP	Enhancing English Language Communication skills for Engineering	18-06-2024 to 22-06-2024	GCET
72	Sonam Marathe	FDP	Enhancing English Language Communication skills for Engineering Faculty	18-06-2024 to 22-06-2024	GCET
73	K. Ashwini	FDP	Enhancing English Language Communication skills for Engineering Faculty	18-06-2024 to 22-06-2024	GCET
74	B.Srivani	FDP	Enhancing English Language Communication skills for Engineering Faculty	18-06-2024 to 22-06-2024	GCET
75	Y. Siva	FDP	Enhancing English Language Communication skills for Engineering Faculty	18-06-2024 to 22-06-2024	GCET
76	G. Santhoshi	FDP	Enhancing English Language Communication skills for Engineering Faculty	18-06-2024 to 22-06-2024	GCET

Faculty Development Programs/Workshops/Refresher Courses Attended by Faculty

S.No.	Faculty Name	Nature of Program Attended	Name of the FDP/ Workshop/ Refresher Course	Date (s) Held	Held at Institute/ Organization
77	A. Chandrakala	FDP	Enhancing English Language Communication skills for Engineering Faculty	18-06-2024 to 22-06-2024	GCET
78	P. KrishnaRao	FDP	Enhancing English Language Communication skills for Engineering Faculty	18-06-2024 to 22-06-2024	GCET
79	P. RamPrasad	FDP	Enhancing English Language Communication skills for Engineering Faculty	18-06-2024 to 22-06-2024	GCET
80	R. Sukrutha	FDP	Deep Learning and IOT driven smart Applications	24-06-2024 to 29-06-2024	MLRIT
81	P. Ushashree	FDP	Deep Learning and IOT driven smart Applications	24-06-2024 to 29-06-2024	MLRIT

Student Qualified in GRE/IELTS/CAT/GATE exam

S.No.	Roll Number	Student Name	TOEFL/ GRE/ GMAT/ IELTES/ XAT/ DUOLINGO , if any
1	20R11A0512	CHINTHAM ARJUN	DUOLINGO
2	20R11A0549	SAKETH BHASHETTY	IELTES
3	20R11A0558	THATIKONDA NIKHIL	IELTES
4	20R11A0561	A K SRI HARSHA	GATE
5	20R11A0569	BHARTI PUDI SAKETH	GATE
6	20R11A0581	GUDUR LIKITHA	PTE
7	20R11A0582	DHRUTI GUTHIKONDA	GRE, DUOLINGO
8	20R11A0588	K.ROHITHA	CAT
9	20R11A0590	PAVANI PRIYA KOLETI	GRE, DUOLINGO
10	20R11A0593	KHUSHI JHA	CAT, XAT
11	20R11A05A3	RAMA RAHUL	GRE, IELTES
12	20R11A05A9	RAJASHEKAR REDDY	GRE
13	20R11A05B8	PRAGNA SRI	GRE
14	20R11A05C0	NITHIN YELLAM	GRE
15	20R11A05C3	AKHIL VELATI	IELTES
16	20R11A05F1	LAMBU MEDHA REDDY	GRE, IELTES
17	20R11A05F5	NAGAPURI ROHITH	GRE, DUOLINGO
18	20R11A05G6	S MADHURI	TG ICET 2024
19	20R11A05H3	T.SHREYA	IELTES
20	20R11A05H9	VENKATA SESA SAI ESHWAR VUDHANTHI	IELTES
21	20R11A05J4	ASHRITH GADEELA	GRE, IELTES
22	20R11A05J7	BATHULA KHUSHI	GRE, IELTES
24	20R11A05K4	GANJIMALA DEVASENA	GRE
25	20R11A05L1	K M VARSHEETH	IELTES
26	20R11A05L3	KANNEGANTI SRI DIVYA	Duolingo
27	20R11A05L5	KUSUNAM MOHIT REDDY	IELTES
28	20r11a05m0	SATHVIKA REDDY	GRE
29	20R11A05N3	SANJANA PATNAM	GRE, IELTES
30	20R11A05P1	SRUTHI SINGH	ATMA
31	20R11A05P3	SUNDER SAI SRINIVAS	GRE, IELTES
32	20R11A05P6	VEESAM GANAPATHI	GRE

National Service Schemes (NSS) Activities

S.No.	Name of the Activity	Date of the Activity	Organized by college/ University	Number of Students participated	Number of Faculty participated
1	Seminar on "AmritKaal Vimarsh Vikasit Bharat@2047"	09-01-2024	Geethanjali College of Engineering and Technology	100	06
2	Survey Program at Adopted villages of GCET	19-02-2024 to 26-02-2024	Geethanjali College of Engineering and Technology	35	04
3	"Blood Group Testing" Programme in association with "LIONS CLUB" Jubilee Hills, Hyderabad	04-03-2024	Geethanjali College of Engineering and Technology	30	06
6	Health Camp in association with Guru Nanak CARE Hospitals, Hyderabad	26-04-2024	Geethanjali College of Engineering and Technology	105	15
7	Seminar on "Women Health Issues" Resource Person: Dr. Swathi H.V (Gynecology), GuruNanak CARE Hospitals, Hyderabad	26-04-2024	Geethanjali College of Engineering and Technology	105	15
8	NSS Volunteers for General Lok Sabha Election 2024, at Khairatabad Division, Hyderabad.	13-05-2024	JNTUH, Hyderabad	30	02
9	Vocational training on cutting and stitching program	03-06-2024	Geethanjali College of Engineering and Technology	15 villagers	05
10	10 th International Yoga day	21-06-2024	Geethanjali College of Engineering and Technology	50	15
11	Anti-Drug awareness program	25-06-2024	Part of Dheera group and JNTUH	50	02

National Service Schemes (NSS) Activities



VIBGYOR & VIBES 2K24

As part of the Annual Day Celebrations, VIBGYOR & VIBES - Cultural Fest was organized by the ME Dept., GCET from March 22 - 23, 2024. VIBGYOR 2024 featured various cultural events, including a DJ set by a Russian actress, Mrs. Julia Bliss and a performance by the Threory Band, and DJ sets by Sunil Sindagi and Anil Sindagi, known together as Project 91. During VIBES-2024, prizes were distributed to winners of cultural events, sports, and academic toppers.



VIBGYOR & VIBES 2K24



Student Articles

Essential Tools used in Digital Forensics

Digital forensics plays a crucial role in investigations involving cybercrime, data breaches, and legal disputes by uncovering, analyzing, and preserving digital evidence. With the increasing complexity of modern devices and data environments, forensic investigators rely heavily on specialized tools to help them manage the intricate process of data recovery, analysis, and reporting. These tools help ensure that digital evidence is accurately extracted and preserved for legal use. Below are some of the most commonly used and useful tools in digital forensics.

1. EnCase Forensic

EnCase is one of the most widely used digital forensics tools, known for its comprehensive capabilities in acquiring, preserving, and analyzing digital evidence. It supports the investigation of computers, mobile devices, and other storage media. EnCase offers:

- **Data acquisition:** It allows for the forensic imaging of drives and devices while maintaining the integrity of the data.
- **Advanced file recovery:** It can recover deleted files and data hidden in complex file systems.
- **Automated analysis:** EnCase provides automated parsing and indexing of various file formats, making it easier to search for relevant evidence.
- **Court reporting:** It offers built-in reporting features that enable the creation of reports admissible in court. EnCase is often used in both corporate investigations and law enforcement, offering a user-friendly interface and the ability to handle a wide range of devices and data types.

2. FTK (Forensic Toolkit)

Developed by AccessData, **FTK (Forensic Toolkit)** is another powerful digital forensics tool designed for comprehensive investigations. Its features include:

- **Data indexing:** FTK indexes all data during the initial analysis, which speeds up the search and retrieval process.
- **Password recovery:** FTK includes a built-in password-cracking feature that can help investigators access encrypted files or systems.
- **Email analysis:** The tool is particularly strong in email investigation, providing a streamlined process for analyzing large volumes of emails, attachments, and metadata.
- **Visualization:** FTK provides rich visualizations to help investigators identify patterns and connections in data, including timelines, relationships, and data flows. FTK is highly valued for its speed and efficiency in processing large amounts of data.

3. Autopsy

Autopsy is an open-source digital forensics platform that simplifies digital investigations, making it accessible to both professionals and beginners. Developed as a graphical interface for the command-line tool Sleuth Kit, Autopsy offers: File system analysis, Timeline analysis, Keyword search, Modular functionality.

Essential Tools used in Digital Forensics

4. Wireshark

Wireshark is a network protocol analyzer widely used in **network forensics**. It helps investigators capture and analyze network traffic in real-time, providing valuable insights into network activities. Wireshark's key features include:

- **Packet analysis:** It captures and inspects packets of data traveling over a network, helping investigators identify abnormal traffic patterns or malicious activities.
- **Live data capture:** Wireshark supports live network data capture, allowing investigators to analyze traffic as it occurs.
- **Protocol support:** It supports a wide range of network protocols, making it useful for analyzing various types of network traffic, including TCP, UDP, and HTTP.
- **Filtering:** Investigators can apply filters to focus on specific types of traffic, such as IP addresses, ports, or protocols, making it easier to pinpoint suspicious activities. Wireshark is indispensable in investigating network breaches, tracing attacks, and understanding how data moves within a network.

5. XRY

XRY is a mobile device forensics tool developed by **MSAB**, specifically designed to extract data from smartphones, tablets, and other mobile devices. It offers:

- **Data extraction:** XRY enables the extraction of data such as messages, call logs, photos, GPS data, and app data from various mobile operating systems, including Android and iOS.
- **Physical and logical acquisition:** It supports both physical extraction (bit-for-bit copying of the entire device) and logical extraction (targeted data retrieval from the file system).
- **App analysis:** XRY is capable of extracting data from a wide range of applications, including social media, messaging apps, and other third-party software.
- **Encryption bypass:** It includes tools to bypass passcodes or encryption on mobile devices, enabling access to otherwise locked data.

XRY is widely used in law enforcement for mobile device investigations and has earned a reputation for its accuracy and reliability.

6. Cellebrite UFED

Cellebrite UFED (Universal Forensic Extraction Device) is another leading tool in mobile device forensics, widely used by law enforcement and intelligence agencies for Comprehensive data extraction, Cloud extraction, App analysis, Data recovery. Cellebrite UFED is known for its versatility and ability to handle complex mobile device investigations.

Digital forensics tools are essential for conducting thorough, efficient, and legally sound investigations. Recovering deleted files, analyzing network traffic, or examining mobile devices, each tool has specialized features designed to address the complexities of digital evidence.

Ms. BONGONI VAISHNAVI
(20R11A0511)

Tesla Self-Driving Cars: Pioneering the Future of Autonomous Driving

Tesla has been at the forefront of electric vehicle innovation for years, and its work on self-driving cars is a significant part of the company's vision for the future. Tesla's Autopilot and Full Self-Driving (FSD) capabilities represent ground breaking advancements in the pursuit of fully autonomous vehicles. These innovations are not just about convenience but also about safety, efficiency, and the eventual transition to a world where human-driven cars could become obsolete.

Key Components of Tesla's Self-Driving Technology:

Tesla's approach to self-driving technology is centered around a robust hardware suite and sophisticated software designed to interpret real-world data in real time.

1. Auto pilot:

Tesla's **Autopilot** is a driver-assist system that provides features such as adaptive cruise control, lane-keeping, and automatic steering. While not fully autonomous, it lays the foundation for the more advanced Full Self-Driving (FSD) capabilities.

- **Key Features:**

- o **Traffic-Aware Cruise Control:** Maintains a set speed while adjusting to the speed of surrounding traffic.
- o **Autosteer:** Keeps the vehicle within a lane while on highways.
- o **Auto Lane Change:** Enables automatic lane changes when the driver activates the turn signal.
- o **Autopark:** Allows the vehicle to park itself in parallel and perpendicular spots.

2. Full Self-Driving (FSD):

The **Full Self-Driving (FSD) package** is Tesla's most advanced autonomous driving system. Though currently under development and still requiring active driver supervision, it offers an array of semi-autonomous features.

- **Key Features:**

- o **Navigate on Autopilot:** Handles highway driving, including interchanges and lane changes.
- o **Summon:** Allows the car to autonomously drive to the owner's location in parking lots.
- o **Traffic Light and Stop Sign Control:** Identifies and reacts to traffic lights and stop signs.
- o **Autosteer on City Streets:** Tesla's ultimate goal is for FSD to navigate complex urban environments with no driver intervention.

3. Tesla Vision and Neural Networks:

Tesla has transitioned to a camera-based system known as Tesla Vision, relying on eight cameras around the vehicle, along with ultrasonic sensors and radar. Unlike many competitors that integrate lidar (laser-based radar), Tesla believes that human-level driving can be achieved using only vision-based systems.

Tesla's neural network is a core part of its self-driving technology. The neural network processes the vast amount of data gathered by the cameras, identifying objects like pedestrians, cyclists, traffic signs, and other vehicles. Over time, the system improves with machine learning, as it analyzes more real-world data from Tesla vehicles globally.

4. Hardware and Computing Power:

Tesla vehicles come equipped with the Full Self-Driving Computer (also known as HW3), designed to process data from the sensors and cameras at lightning-fast speeds. Tesla has stated that this hardware is capable of full autonomy, with future software updates unlocking more advanced capabilities.

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5. Over-the-Air Updates:

One of Tesla's most significant innovations is the ability to provide **over-the-air software updates**. These updates can enhance or add new functionalities to Tesla's Autopilot and FSD systems without requiring a visit to a service center. Tesla continuously improves its self-driving algorithms and releases updates to enhance the vehicle's autonomous capabilities.

Regulatory and Safety Challenges:

1. Regulation and Legal Framework: A fully autonomous vehicle is not yet legal on most roads. Current regulations generally require that a human driver must be ready to take control at any time. Tesla markets its cars with the understanding that its FSD system still requires human supervision. One of the critical issues facing Tesla and other autonomous vehicle manufacturers is the lack of a comprehensive legal framework governing self-driving technology. Policymakers need to address liability concerns, insurance issues, and how self-driving cars will integrate with human-driven vehicles on public roads.

2. Safety Concerns: Safety remains a major focus in the debate over self-driving cars. Tesla's Autopilot system has faced scrutiny after being involved in several high-profile accidents, raising questions about the safety of semi-autonomous systems. Tesla argues that its vehicles are safer than human-driven cars, citing data that suggests fewer accidents per mile when Autopilot is engaged. Tesla cars equipped with Autopilot include safeguards, such as alerts that remind drivers to keep their hands on the wheel and remain attentive. However, some drivers misuse the system by relying entirely on the car's automation, which can lead to dangerous situations.

3. Autonomous Driving Levels: Tesla's system is considered **Level 2** autonomy, according to the Society of Automotive Engineers' (SAE) autonomy scale. This means that the car can perform some driving tasks, but human supervision is required at all times. The future goal for Tesla and other manufacturers is to achieve **Level 5 autonomy**, where no human intervention is needed, and the car can operate in all environments and conditions.

Conclusion

Tesla's self-driving technology is one of the most ambitious and transformative projects in the automotive industry. While it has made significant strides with Autopilot and Full Self-Driving, achieving full autonomy still faces technological, regulatory, and safety challenges. Tesla's focus on data-driven machine learning, combined with a robust hardware infrastructure, positions the company as a leader in the race towards fully autonomous vehicles.

As Tesla continues to refine its technology and address these hurdles, its self-driving cars represent not only the future of the automotive industry but also a glimpse into a world where transportation could become safer, more efficient, and more accessible than ever before.

Ms. KOLETI PAVANI PRIYA
(20R11A0590)

Unlocking the Power of Data Visualization: Tools That Transform Raw Data into Insight

In today's data-driven world, the ability to visualize data effectively is critical for organizations across industries. Whether it's understanding consumer behavior, tracking financial trends, or analyzing scientific data, data visualization tools play a crucial role in transforming complex datasets into digestible, actionable insights. These tools make it easier for decision-makers to grasp trends, identify patterns, and communicate findings in a visually compelling way.

This article explores the importance of data visualization and highlights some of the most popular tools available to help users create impactful visual representations of their data.

Why is Data Visualization Important?

Data visualization refers to the graphical representation of information and data through charts, graphs, maps, or infographics. The goal is to make large amounts of data easier to understand and interpret. Effective visualizations allow users to:

- **Simplify complex data:** By converting raw numbers into visual formats, users can quickly grasp the meaning of the data, especially when dealing with large or complex datasets.
- **Identify trends and patterns:** Visual representations make it easier to detect trends, correlations, and outliers, which may not be apparent in raw data.
- **Support decision-making:** Clear and interactive visualizations help decision-makers understand the implications of the data, leading to more informed and timely decisions.

Communicate findings: Visualizations are a powerful way to convey information to a broad audience, including stakeholders who may not have a background in data analysis.

Popular Data Visualization Tools:

1. TABLEAU:

Best for: Interactive dashboards, business analytics, and storytelling

Tableau is one of the most popular data visualization tools, known for its user-friendly interface and powerful capabilities. It enables users to create interactive dashboards and reports by simply dragging and dropping data fields. Tableau supports a wide range of data sources, including Excel, SQL databases, and cloud services like Salesforce and Google Analytics. What sets Tableau apart is its ability to handle large datasets and complex visualizations with ease. It also allows users to explore data interactively, making it a valuable tool for business intelligence and data analysis.

2. Microsoft Power BI:

Best for: Business intelligence, integration with Microsoft products, and cost-effective solutions

Microsoft Power BI is another leading data visualization tool, particularly suited for organizations already using Microsoft products like Excel, Azure, and Office 365. It offers a robust set of features for creating interactive reports, dashboards, and visual analytics. With its integration with other Microsoft tools, Power BI is especially powerful for companies with existing investments in the Microsoft ecosystem.

Power BI allows users to combine and analyze data from multiple sources, providing real-time updates on dashboards.

3. Google Data Studio:

Best for: Google ecosystem users, real-time reporting, and ease of use

Google Data Studio is a free tool that enables users to create interactive and shareable dashboards. As part of the Google ecosystem, it integrates easily with other Google services like Google Analytics, Google Sheets, and Google Ads, making it ideal for digital marketers, SEO specialists, and web analysts.

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4. D3.js:

Best for: Developers, custom visualizations, and web integration

D3.js (Data-Driven Documents) is a powerful JavaScript library used to create dynamic, interactive visualizations in web browsers. Unlike other tools that offer pre-built templates and drag-and-drop interfaces, D3.js requires coding knowledge. However, this tool offers unparalleled flexibility, allowing developers to create highly customized visualizations that can be embedded into websites.

D3.js is perfect for organizations with specific visualization needs that go beyond the capabilities of commercial tools.

5. Qlik Sense:

Best for: Self-service analytics, enterprise-level solutions, and AI-driven insights

Qlik Sense is an advanced data visualization and business intelligence platform known for its associative data model, which allows users to explore data freely without being limited by predefined queries. This self-service tool enables users to create their own visualizations, reports, and dashboards while offering advanced analytics capabilities.

Qlik Sense also integrates AI and machine learning, providing automated insights and recommendations to users.

6. Looker:

Best for: Data-driven companies, real-time analytics, and SQL-based queries

Looker, now part of Google Cloud, is a business intelligence platform that provides robust data visualization capabilities and integrates seamlessly with SQL databases. It's designed for companies that rely on cloud-based data warehouses, offering real-time analytics and custom visualizations for large data-sets.

Looker's unique feature is its reliance on SQL, making it a powerful tool for data teams that are comfortable with coding. It allows businesses to analyze and visualize data directly from the source without needing to extract and transform it, making it ideal for modern data workflows.

Choosing the Right Tool for Your Needs:

The right data visualization tool depends on your specific needs, technical expertise, and the scale of your data. For businesses seeking ease of use and quick insights, tools like Tableau, Power BI, or Google Data Studio are excellent options. For organizations requiring more customization, D3.js and Looker offer powerful solutions for advanced users. Ultimately, a good data visualization tool should not only represent data clearly but also make it easier to derive actionable insights, whether for business decision-making or scientific research.

Ms. D. NAVYASREE GOUD
(21R15A0512)

An overview of Amazon Web Services (AWS)

Amazon Web Services (AWS) is a comprehensive and widely adopted cloud computing platform offered by Amazon. It provides a broad set of global cloud-based products, including compute power, storage options, and networking capabilities. Here's an overview of what makes AWS a prominent choice for businesses and developers.

Key Features of AWS:

1. Compute Services:

- o **Amazon EC2 (Elastic Compute Cloud):** Allows users to rent virtual servers (instances) to run applications and scale computing capacity up or down as needed.
- o **AWS Lambda:** Enables serverless computing, where users can run code in response to events without provisioning or managing servers.

2. Storage Solutions:

- o **Amazon S3 (Simple Storage Service):** Provides scalable object storage with high durability and availability for data backup, archival, and analytics.
- o **Amazon EBS (Elastic Block Store):** Offers persistent block storage for EC2 instances, suitable for applications requiring frequent reads and writes.

3. Database Services:

- o **Amazon RDS (Relational Database Service):** Supports multiple database engines, including MySQL, PostgreSQL, and Oracle, with automated backups, patching, and scaling.
- o **Amazon DynamoDB:** A fully managed NoSQL database service providing single-digit millisecond performance at any scale.

4. Networking:

- o **Amazon VPC (Virtual Private Cloud):** Allows users to create isolated networks within the AWS cloud to control IP address ranges, subnets, and route tables.
- o **AWS Direct Connect:** Provides a dedicated network connection from on-premises to AWS for faster and more consistent network performance.

5. Security and Compliance:

- o **AWS Identity and Access Management (IAM):** Enables users to control access to AWS services and resources securely.
- o **AWS Shield:** Provides protection against Distributed Denial of Service (DDoS) attacks.

6. Analytics:

- o **Amazon Redshift:** A fully managed data warehouse service for running complex queries and analytics on large datasets.
- o **Amazon Athena:** Allows users to analyze data directly in Amazon S3 using SQL without having to set up and manage infrastructure.

7. Machine Learning and AI:

- o **Amazon SageMaker:** A fully managed service for building, training, and deploying machine learning models.
- o **AWS Rekognition:** Provides image and video analysis capabilities powered by machine learning.

An overview of Amazon Web Services (AWS)

Advantages of AWS:

- **Scalability:** AWS offers a wide range of services that can be scaled up or down based on demand, allowing businesses to handle varying workloads efficiently.
- **Cost-Effectiveness:** With a pay-as-you-go pricing model, users only pay for the resources they use, which can reduce costs compared to traditional on-premises infrastructure.
- **Global Reach:** AWS has a vast network of data centers around the world, ensuring low latency and high availability for users globally.

Innovation: AWS continually adds new services and features, enabling businesses to leverage the latest technologies and stay competitive.

Use Cases:

- **Startups and Small Businesses:** AWS provides cost-effective solutions that can scale with the growth of the business.
- **Enterprise IT:** Large enterprises use AWS to host critical applications, data analytics, and disaster recovery solutions.
- **Developers:** AWS offers tools and services that support development, testing, and deployment of applications.

In summary, Amazon Web Services (AWS) is a powerful and flexible cloud computing platform that caters to a wide range of needs, from individual developers to large enterprises. Its comprehensive set of services, global infrastructure, and innovative features make it a leading choice in the cloud computing industry.

Mr. A. LAKSHMI JAYANTH
(20R11A0501)

Google Cloud AI Platform

Google Cloud AI Platform is a comprehensive suite of tools and services offered by Google Cloud that enables developers and data scientists to build, deploy, and manage machine learning models. It integrates seamlessly with other Google Cloud services and provides a range of functionalities tailored to various stages of the machine learning lifecycle.

Here's an overview of its key features and capabilities:

1. Key Features:

a. Data Preparation:

- **BigQuery:** A fully managed data warehouse that supports SQL queries for analyzing large datasets quickly.
- **Dataflow:** A managed service for stream and batch processing that helps in preparing and transforming data before it's fed into machine learning models.

b. Model Building:

- **AI Platform Notebooks:** Managed Jupyter notebooks that offer a collaborative environment for developing and experimenting with machine learning models. These notebooks come pre-configured with popular ML libraries and frameworks.
- **TensorFlow and TFX:** Native support for TensorFlow, including TensorFlow Extended (TFX) for production pipelines. This helps in building scalable and efficient ML workflows.
- **AutoML:** A suite of tools for automating the process of training and tuning machine learning models, allowing users with limited machine learning expertise to create models that perform well on their data.

c. Model Training:

- **AI Platform Training:** Scalable training infrastructure that supports distributed training across multiple GPUs or TPUs. This ensures that models can be trained efficiently on large datasets.
- **Hyperparameter Tuning:** Automated tools for optimizing hyper parameters to improve model performance.

d. Model Deployment:

- **AI Platform Prediction:** A fully managed service for deploying machine learning models for online and batch predictions. It supports real-time prediction through REST APIs and can handle large-scale batch predictions.

Vertex AI: A unified AI platform that includes AI Platform Prediction and additional features for managing the ML lifecycle, such as model monitoring and endpoint management.

e. Model Monitoring and Management:

- **Model Monitoring:** Tools to track the performance of deployed models, including metrics like accuracy, latency, and error rates.
- **Model Drift Detection:** Features to detect when a model's performance degrades over time, allowing for timely retraining and updates.

f. Integration and Collaboration:

- **Google Cloud Storage:** For storing and accessing large datasets.
- **BigQuery ML:** Allows users to create and execute machine learning models directly within BigQuery using SQL.
- **Kubeflow:** An open-source project that runs on Google Kubernetes Engine (GKE) to manage end-to-end ML workflows.

Google Cloud AI Platform

2. Benefits:

- **Scalability:** Google Cloud AI Platform provides the infrastructure to scale machine learning workflows from small-scale experiments to large production deployments.
- **Integration:** Seamlessly integrates with other Google Cloud services like BigQuery, Dataflow, and Google Kubernetes Engine, enabling end-to-end solutions.
- **User-Friendly:** AutoML and AI Platform Notebooks make it easier for users with varying levels of expertise to develop and deploy machine learning models.
- **Security and Compliance:** Google Cloud's robust security features ensure that data and models are protected, and compliance with industry standards is maintained.

3. Use Cases:

- **Predictive Analytics:** Leveraging machine learning models to forecast trends, customer behavior, and business outcomes.
- **Natural Language Processing (NLP):** Building models for tasks such as sentiment analysis, language translation, and text classification.
- **Image and Video Analysis:** Using pre-trained models or custom models to recognize objects, faces, or activities in images and videos.
- **Recommendation Systems:** Creating personalized recommendations for users based on their behavior and preferences.

To start using Google Cloud AI Platform, follow these steps:

1. **Set Up a Google Cloud Account:** Create a Google Cloud account and set up a billing account.
2. **Explore the AI Platform:** Navigate to the AI Platform section in the Google Cloud Console.
3. **Create a Project:** Set up a new project and configure necessary permissions.
4. **Access Notebooks:** Launch AI Platform Notebooks to start experimenting with machine learning.
5. **Build and Train Models:** Use AI Platform Training and AutoML tools to develop and train models.
6. **Deploy Models:** Deploy models using AI Platform Prediction or Vertex AI.
7. **Monitor and Manage:** Use monitoring tools to track model performance and make necessary adjustments.

Conclusion:

Google Cloud AI Platform is designed to support a wide range of machine learning and AI applications, making it a powerful tool for organizations looking to leverage the power of machine learning and data-driven insights.

Mr. A K SRI HARSHA
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How Does Artificial Intelligence Create New Jobs?

World Economic Forum Predicts AI to Create New Job Opportunities, Contrary to Doom and Gloom:

The rise of artificial intelligence (AI) has sparked a heated debate about its impact on the job market. While some fear that AI will lead to widespread job loss and economic disruption, the World Economic Forum (WEF) offers a more optimistic outlook. According to recent reports, AI is poised to create significant new job opportunities, challenging the prevailing doom-and-gloom narrative. Here's a closer look at how AI is expected to generate new roles and reshape the workforce.

The Optimistic Forecast: AI as a Job Creator:

1. Emerging Job Roles and Specializations:

The WEF predicts that the proliferation of AI technologies will lead to the creation of a diverse array of new job roles. These include positions in AI development, management, and support.

- ♦ **AI and Machine Learning Specialists:** As organizations increasingly adopt AI, there will be a growing demand for experts in machine learning, neural networks, and natural language processing. These roles involve designing, developing, and maintaining AI systems.
- ♦ **Data Scientists and Analysts:** Data scientists will continue to be crucial in interpreting the vast amounts of data generated by AI systems. Their expertise in statistical analysis and data visualization will be essential for deriving actionable insights.
- ♦ **AI Ethics and Compliance Officers:** With the rise of AI, there is a growing need for professionals who ensure that AI systems are used ethically and comply with regulations. These roles focus on addressing bias, transparency, and accountability in AI technologies.

2. AI Enhancing Existing Roles:

Rather than replacing jobs, AI is expected to augment existing roles and enhance productivity:

- ♦ **Automation of Repetitive Tasks:** AI can handle routine and repetitive tasks, allowing workers to focus on more complex and creative aspects of their jobs. For instance, in finance and healthcare, AI can automate data entry and routine analyses, freeing up professionals to engage in strategic decision-making.
- ♦ **New Skill Requirements:** As AI tools become more prevalent, there will be an increased need for workers to acquire new skills. This shift creates opportunities for educators and training providers to offer upskilling and reskilling programs.

3. Expansion of AI-Driven Industries:

AI is fueling growth in several sectors, leading to the emergence of new industries and job opportunities:

- ♦ **Technology and Innovation Hubs:** The AI industry itself is expanding rapidly, with new startups and tech companies focusing on AI applications. This growth creates jobs in software development, project management, and business development.
- ♦ **Healthcare and Life Sciences:** AI applications in healthcare, such as diagnostic tools and personalized medicine, are transforming the industry. This leads to job creation in both healthcare and technology sectors, including roles related to AI system development and integration.
- ♦ **Creative Industries:** AI is also making its mark in creative fields like film, music, and art. AI-driven tools for content creation and visual effects are opening new opportunities for artists, designers, and creative technologists.

How Does Artificial Intelligence Create New Jobs?

4. Global and Local Economic Growth:

AI's impact on job creation extends to both global and local economies:

- ♦ **Global Economic Growth:** AI is driving innovation and efficiency on a global scale, contributing to economic growth and creating high-value jobs. Countries investing in AI research and development are positioning themselves as leaders in the digital economy.
- ♦ **Local Job Creation:** AI-driven projects and initiatives often create job opportunities at the local level, particularly in regions with tech hubs or innovation centers. These opportunities include roles in technology development, support services, and regional business growth.

5. AI in Education and Training:

AI's role in education is also generating new job opportunities:

- ♦ **Educational Technology Development:** AI is being used to develop personalized learning tools and educational content. This creates jobs for instructional designers, content creators, and educational technologists.
- ♦ **Training and Simulation:** AI-driven training and simulation tools are being used in industries such as aviation and healthcare. This creates opportunities for professionals involved in designing and managing these training systems.

Addressing the Challenges:

While the WEF's optimistic outlook highlights the potential for job creation, it also acknowledges the challenges associated with AI adoption:

- ♦ **Workforce Transition:** The transition to an AI-driven economy requires thoughtful planning and support for workers who may be displaced by automation. This includes investing in reskilling programs and providing support for career transitions.
- ♦ **Ethical and Social Considerations:** Ensuring that AI is used responsibly and ethically is crucial for fostering public trust and maximizing its benefits. This involves addressing issues related to data privacy, bias, and transparency.

Conclusion:

The World Economic Forum's prediction that AI will create new job opportunities offers a hopeful perspective amidst widespread concerns about job displacement. By fostering innovation, enhancing existing roles, and generating new industries, AI has the potential to drive economic growth and job creation. However, addressing the associated challenges and supporting workforce transitions will be essential for realizing these benefits and ensuring a positive impact on the global job market.

Ms. KOSGI AAKANKSHA REDDY
(20R11A0592)

The Future of Solar Energy: Transforming Power for a Sustainable World

Solar energy has emerged as one of the most promising and sustainable sources of power in the modern world. With its potential to reduce carbon emissions, enhance energy security, and provide reliable power, solar energy is increasingly becoming a cornerstone of the global energy transition.

1. Understanding Solar Energy:

Solar energy is harnessed from the sun's rays and converted into electricity or heat using various technologies. The two primary methods of harnessing solar energy are:

- **Photovoltaic (PV) Systems:** PV systems convert sunlight directly into electricity using semiconductor materials that exhibit the photovoltaic effect. These systems are commonly used in residential, commercial, and utility-scale applications.
- **Solar Thermal Systems:** Solar thermal systems capture sunlight to produce heat, which can then be used for applications such as heating water or generating steam to drive turbines for electricity production.

2. Recent Innovations in Solar Technology:

a. Advanced Photovoltaic Cells:

- **Perovskite Solar Cells:** Perovskite materials are showing great promise due to their high efficiency and low production costs. Researchers are working to improve their stability and scalability for commercial use.
- **Bifacial Panels:** These panels capture sunlight from both sides, increasing energy yield and efficiency. They are becoming more common in large-scale solar installations.
- **Thin-Film Technologies:** Advancements in thin-film solar cells, such as those using cadmium telluride (CdTe) or copper indium gallium selenide (CIGS), offer flexibility and lower production costs.

b. Enhanced Energy Storage Solutions:

- **Solid-State Batteries:** These batteries use a solid electrolyte instead of a liquid one, providing higher energy density, safety, and longevity for storing solar energy.
- **Flow Batteries:** Flow batteries offer scalable and long-duration energy storage, making them suitable for balancing intermittent solar power.

c. Innovative Solar Panels:

Solar Roofs and Building-Integrated PV (BIPV): Solar panels are being integrated into roofing materials and building facades, seamlessly blending with architecture while generating power.

Concentrated Solar Power (CSP): CSP systems use mirrors or lenses to concentrate sunlight onto a small area, generating high temperatures to drive steam turbines or engines for electricity production.

3. Benefits of Solar Energy:

a. Environmental Impact:

- **Reduces Greenhouse Gas Emissions:** Solar energy generation produces no direct emissions, helping to mitigate climate change and reduce reliance on fossil fuels.
- **Decreases Air Pollution:** By replacing coal and natural gas with solar power, air quality improves, reducing health risks associated with pollution.

The Future of Solar Energy: Transforming Power for a Sustainable World

b. Economic Advantages:

- **Job Creation:** The solar industry generates employment opportunities in manufacturing, installation, maintenance, and research and development.
- **Energy Independence:** Solar energy reduces dependence on imported fuels, enhancing national energy security and stability.

c. Cost-Effectiveness:

- **Falling Costs:** The cost of solar panels and installation has significantly decreased over the past decade, making solar energy more accessible and affordable.
- **Long-Term Savings:** Once installed, solar systems have low operating and maintenance costs, and can lead to substantial savings on electricity bills.

4. Challenges Facing Solar Energy:

a. Intermittency:

- **Weather Dependence:** Solar energy generation is influenced by weather conditions and time of day, leading to variability in power output.
- **Storage Needs:** Effective energy storage solutions are required to manage the intermittent nature of solar power and ensure a stable energy supply.

b. Space Requirements:

Land Use: Large-scale solar farms require significant land area, which can impact land use and ecosystems. Solutions include dual-use systems such as solar panels on agricultural land or floating solar farms on bodies of water.

c. Resource and Recycling Concerns:

Material Sourcing: The production of solar panels involves the use of certain rare and potentially hazardous materials. Sustainable sourcing and recycling practices are essential to minimize environmental impact.

5. Future Prospects:

a. Technological Advancements:

- **Integration with AI and IoT:** The use of artificial intelligence and the Internet of Things (IoT) can optimize solar energy systems, improve predictive maintenance, and enhance grid integration.
- **Solar Fuels:** Research is underway to develop technologies that use solar energy to produce hydrogen or other solar fuels, which can be stored and used for various applications.

b. Global Adoption:

- **Increased Deployment:** Solar energy adoption is expanding worldwide, with significant growth in both developed and developing countries. Governments and organizations are investing in solar infrastructure and supportive policies.
- **Decentralized Power:** Solar technology enables decentralized power generation, allowing individuals and communities to produce their own electricity and contribute to energy resilience.

Mr. ANNADANAM ABHIRAM
(20R11A0564)

Apache Cassandra: A Robust NoSQL Database for Modern Applications

Apache Cassandra is a highly scalable, distributed NoSQL database designed to handle large volumes of data across multiple servers with no single point of failure. Initially developed at Facebook to manage their inbox search feature, Cassandra was later open-sourced and has since become a key tool for organizations that need high availability, fault tolerance, and scalability. Its unique architecture and decentralized design make it particularly well-suited for applications that require real-time data processing on a global scale.

Key Features of Apache Cassandra:

1. **Distributed Architecture:** Cassandra operates as a distributed database across a cluster of nodes, meaning data is automatically spread across multiple machines. Each node in the cluster has the same role, and there is no single master node, which helps in achieving horizontal scalability and fault tolerance.
2. **Decentralized (Peer-to-Peer) Model:** Cassandra's architecture is based on a peer-to-peer model, where all nodes are equal. There is no single point of control or failure, as each node is capable of handling read and write requests. This decentralization improves availability and resilience, especially in environments where multiple data centers are involved.
3. **Linear Scalability:** One of Cassandra's most significant strengths is its ability to scale linearly. As the system grows and more nodes are added, performance increases proportionally. This enables organizations to manage growing workloads without a degradation in performance.
4. **High Availability and Fault Tolerance:** Cassandra is designed to be highly available, even in the face of hardware or network failures. The database replicates data across multiple nodes and even multiple data centers, ensuring that if one or more nodes go down, the system remains operational. This is known as replication, and administrators can configure the replication factor to determine how many copies of data are maintained.
5. **Tunable Consistency:** Cassandra allows for fine-tuning of data consistency based on application requirements. It supports both strong and eventual consistency models. For example, a user can choose whether to prioritize consistency (by waiting for confirmation from all replicas) or availability (by accepting the result from the first replica that responds). This flexibility makes Cassandra suitable for a wide range of use cases, from financial transactions (where strong consistency is crucial) to social media feeds (where eventual consistency is acceptable).
6. **NoSQL Data Model:** As a NoSQL database, Cassandra does not follow the traditional relational database model. Instead, it uses a flexible, schema-less data model, with tables, rows, and columns, similar to a relational database, but with the freedom to have different columns in different rows. This makes Cassandra highly adaptable to unstructured or semi-structured data.
7. **Support for Distributed and Real-Time Data:** Cassandra is designed for environments where data needs to be distributed geographically and handled in real-time. Its ability to handle vast amounts of data and serve multiple requests in milliseconds makes it a perfect fit for IoT applications, social networks, and online transaction systems.
8. **CQL (Cassandra Query Language):** Cassandra has its own query language known as CQL, which is similar to SQL but optimized for NoSQL operations. CQL makes it easier for developers familiar with relational databases to transition to Cassandra, providing a familiar syntax for interacting with the database while allowing for the flexibility of NoSQL.

Ms. KONDA USHA NEHA

(20R11A0528)

The Light of Change

Dawn of Struggles:

In the bustling streets of a small town, amidst the whispers of hardship and the echoes of dreams, there lived a family bound by threads of love and burdened by the weight of illiteracy. At the heart of this family stood a young girl, the last child, who witnessed the relentless struggle of her parents.

From the moment she came into this world, she saw her parents grappling with financial woes, but as she grew, she realized it wasn't merely economics that plagued their home - it was the shadow of illiteracy, casting darkness over their every endeavor. The patriarchal norms of society dictated the fate of her elder sisters, their futures sealed in marriages arranged hastily, their education sacrificed at the altar of tradition.

The Spark of Hope:

Yet, amidst the bleakness, a glimmer of hope flickered in the eyes of the youngest daughter. She recognized the power of education, the beacon of light that could illuminate the path out of darkness. Determined to break free from the chains of ignorance, she embarked on a journey of learning, seeking knowledge in the humble corridors of a nearby school.

As she delved into the pages of textbooks, she not only absorbed the lessons of arithmetic and literature but also gleaned insights into the intricacies of society. With each passing day, her resolve strengthened, fueled by the desire to uplift her family from the depths of poverty and ignorance.

A Beacon of Change:

Armed with education and fortified by her indomitable spirit, the young girl emerged as a force to be reckoned with. She refused to conform to the norms that shackled her sisters, determined to carve out her own destiny. With eloquence and conviction, she championed the cause of education, both within the confines of her home and in the wider society.

Her journey was not without obstacles, but she faced them head-on, her unwavering determination paving the way for a brighter future. As she stood before the world, a beacon of change, she embraced her role not only as a daughter but also as a catalyst for transformation.

The Triumph of Purpose:

In the crucible of adversity, the young girl forged her path with courage and resilience. With each step she took, she shattered stereotypes and challenged the status quo, proving that change was not merely a distant dream but a tangible reality.

the story of the youngest daughter of a struggling family became a testament to the power of education, the strength of character, and the triumph of purpose. As the pages of her life unfolded, she left an indelible mark on the world, a legacy of hope and inspiration for generations to come.

Epilogue: A Call to Action

As the curtains draw to a close on her tale, the echoes of her journey linger in the air, a reminder to all who dare to dream. In the student stage itself, every person holds the key to change, the power to shape their destiny and transform the world around them. As we need her call to action, let us remember that the light of change shines brightest in the hearts of those who dare to defy the darkness.

Ms. PBSN SRIYA
(21R11A0595)

Technical Poem on “Machine Learning”

In the realm where data flows like streams,
Where algorithms chase elusive dreams,
A neural net with layers deep,
Unfolds the secrets that we seek.

A matrix of inputs, vectors aligned,
Weights and biases intricately intertwined,
Through activation functions, thresholds ignite,
Transforming raw data into insights.

Gradient descent, a path to refine,
Iterative steps in a quest to define,
Loss functions guiding the journey's course,
Optimizing models with precision and force.

Supervised learning, with labels in tow,
Trains the model on what it should know,
While unsupervised finds patterns anew,
Clusters and structures emerging in view.

Reinforcement's feedback, rewards in play,
Guides decisions, shaping the way,
Through trial and error, policies form,
Navigating complexities, adapting the norm.

From decision trees branching out wide,
To deep learning's layers where mysteries hide,
Support vector machines drawing clear lines,
Classifying realms where data defines.

In the vast expanse of this digital land,
Machine learning evolves, guided by hand,
An art and science, a fusion so grand,
Crafting predictions from patterns so planned.

Ms. AFIFA NILOUFER
(20R11A0503)

Student Committee for Newsletter "TechEpistle"

S.No.	Roll Number	Student Name	Year
1	20R11A05K2	Mr. DHARAVATH ROUNITH	IV Year
2	20R11A0539	Ms. MUSAPETA DEEPIKA	IV Year
3	20R11A0582	Ms. GUTHIKONDA DHRUTI	IV Year
4	20R11A0593	Ms. KHUSHI JHA	IV Year
5	20R11A05B6	Mr. V LAXMANA VYAAS	IV Year
6	20R11A05F7	Ms. PABBA SHREYA	IV Year
7	21R11A0595	Ms. POTHARLA BABY SHIVA NAGA SRIYA	III Year
8	22R15A0508	Mr. GUDIKATI ASHOK	III Year
9	21R11A0559	Mr. AVVARU GURU JAYANTH	III Year
10	21R11A05J7	Mr. PALLE ANUROOP REDDY	III Year
11	21R11A05D2	Ms. MANDADI HARSHITHA REDDY	III Year
12	21R11A05K0	Mr. RAMIDI HARINATH REDDY	III Year
13	22R11A0509	Ms. CH. AMRUTHA VARSHINI	II Year
14	22R11A0502	Mr. A. UDAY	II Year
15	22R11A0529	Mr. NALLAPATI NIKHIL SAI	II Year
16	22R11A0522	Ms. KONREDDY HIMASRI	II Year
17	22R11A0547	Mr. AMIT BADONI	II Year
18	22R11A05U6	Ms. VISHWANATH SAI SHRIYA	II Year
19	22R11A05T6	Mr. SANTHOSAM MANOHAR	II Year
20	22R11A05X9	Ms. RELANGI TARUN KUMAR	II Year
21	22R11A05Y7	Ms. VANAGAROUTHU SAI SHARANYA	II Year
22	22R11A0524	Ms. MALIGE SUMANA SRI	II Year

