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)
Email: info@gcet.edu.in Website: https://www.geethanjaliinstitutions.com

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

# TECH EPISTLE

## NEWSLETTER

VOLUME 12, ISSUE 1
JULY - DECEMBER 2023

Volume 12, Issue 1 July 2023 to December 2023

# TechEpistle

## Newsletter from Department of CSE

## Geethanjali College of Engineering and Technology

(UGC Autonomous, Approved by AICTE and Permanently Affiliated to JNTUH)
(Accredited by NAAC with 'A+' Grade and Accredited by NBA )



**Inside the Issue**

## 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

- CSE Dept. of Geethanjali College of Engineering and Technology, received **Rs.3,50,000/-** as a grant-in-Aid for conducting Face to Face **one week Faculty Development Programme on "BlockChain Technology" under AICTE Training and Learning(ATAL) Academy program** which was conducted during 13-11-2023 to 18-11-2023.
- 3rd International Conference on **Computational Intelligence in Machine Learning (ICCIML-2023)** was organized by CSE Department during 24th & 25th November, 2023.
- The External Academic Audit for the year 2022-23 was conducted on 20th January, 2024, by a committee comprising external member **Dr.Y.Rama Devi,** Professor in CSE & HoD – CSE at Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad, conducted the audit in the Department of CSE.
- The Program Assessment Committee (PAC) meeting was conducted on 31-08-2023, to review the Course Outcomes (COs) attained for the courses offered during the second semester of the 2022-23 academic year, and Program Outcomes (POs) achieved by the 2019-23 batch.

## Faculty Patents & Book Chapters Published

- **Mrs. P. Ushashree,** Assistant Professor, Department of CSE, has secured a patent publication titled **"EDITH: The Voice Assistant "** with the application number 202341047993, in Sept 2023.
- **Mrs. P. Ushashree,** Assistant Professor, Department of CSE, Published a Book Chapter Titled **"Phased.js: Automated Software Deployment & Resource Provisioning and Management for AI",** CRC Press, 2023, ISBN: 9781032466019.

## Faculty Achievements

- **Dr. Madhuri Gupta,** Associate Professor, Department of CSE, **Awarded with Ph.D Degree** from Rajiv Gandhi prodyogiki Vishwavidyalaya, Technological University of Madhya Pradesh, Bhopal, on 12th Sept, 2023.
- **Dr. A. Hari prasad Reddy**, Associate Professor, Department of CSE, acted as a **recourse person** for guest lecture on "Artificial Intelligence" organized by Gouthami Institute of Technology and Management for Women, held on 28th - 29th August, 2023.
- **Dr. A. Hari prasad Reddy**, Associate Professor, Department of CSE, **Ratified** as **Associate Professor,** from JNTU, Hyderabad.
- **Dr. A. Hari prasad Reddy**, Associate Professor, Department of CSE, Acted as a **external examiner to conduct Ph.D viva voce Examination** at Sri Satya Sai University of Technology & Medical Sciences, Sehore on 06.07.2023
- **Dr. A. Hari prasad Reddy**, Associate Professor, Department of CSE, Acted as a **judge** at Medha -2k23 a State level Technical Symposium program held on 16.9.2023.
- **Dr. Puja S Prasad,** Associate Professor, Department of CSE, Acted as a **Keynote Speaker** for 6th international congress on "engineering science and multidisciplinary approaches" held on 02 - 03 December, 2023, Istanbul (online).
- Four Faculty members - **Dr. A. Sreelakshmi,** Professor and HoD-CSE, **V. Shiva Narayana Reddy**, Associate Professor, **M.Viswashanthi**, Assistant Professor, **A. Abhilasha**, Assistant Professor, Earned the **badges** from **GOOGLE CLOUD** during August 2023 to September 2023.

  List of courses completed as part of GOOGLE CLOUD certification:

  i) Google cloud computing foundations: ML and AI in Google cloud,

  ii) infrastructure in Google cloud iii) networking & security in Google cloud

  iv) cloud computing fundamentals v) Create and manage cloud resources.
- **Dr.K.Raghu,** Associate Professor, Department of CSE, was the **BOS Member** for CSE(AIML) and CSE(Data Sceince) at Malla Reddy Engineering College (Autonomous), Hyderabad on 07.08.2023.
- **Dr.K.Raghu,** Associate Professor, Department of CSE, acted as a **Reviewer** for Multi-Disciplinary International Conference on Artificial Intelligence jointly Organized by CVR College of Engineering, Hyderabad and Mahasarakham University, Thailand during 21st-22nd July, 2023
- **Dr.K.Raghu,** Associate Professor, Department of CSE, acted as a **Reviewer** for EAI ICISML 2023- Intelligent Systems and Machine Learning (ICISML-2023) Organized by Sri Sri University, Odisha, during 27th -28th July, 2023.
- **Dr.K.Raghu,** Associate Professor, Department of CSE, acted as a **Reviewer** for SN Applied Sciences-2023 (Scopus), held on 17.11.2023.
- **S.Radha,** Sr. Assistant Professor, Department of CSE, Recognized as **NPTEL motivated learner** during July - Dec, 2023.

## Faculty Achievements

- **P. UshaShree,** Assistant Professor, Department of CSE, Awarded as **best paper presenter** for the paper entitled "Multiflow: Leveraging combined time series algorithms for accurate traffic fore-casting" at IEEE MYSURUCON - 2023, 3rd edition of the flagship international conference series of IEEE during 1st - 2nd December, 2023.
- **P.Ushashree,** Assistant Professor, **R.Sukruta,** Assistant Professor, **E.Vijaya,** Assistant Professor, **J.Meena Sravanthi,** Assistant Professor, Department of CSE, **Certified under Oracle Academy** course titled **"Artificial Intelligence with Machine Learning in Java"** on August 2023.
- **G. Udaya sree,** Assistant Professor, **M. Vishwashanthi,** Assistant Professor, Department of CSE, **Certified under Cisco network academy** course titled **"Introduction to cyber Security"** in August 2023.
- **P.Ushashree**, Assistant Professor**, R.Sukruta**, Assistant Professor, **G. Udayasree**, Assistant Professor, Department of CSE, **Certified under Cisco network academy** course titled **PCAP: Programming Essentials in Python** in August 2023.
- **M. Vishwashanthi,** Assistant Professor, Department of CSE, **Certified under Oracle Academy** Course titled **"Java Fundamentals"** on August 2023.

## Student Achievements

- **Ms.V.R. Sai Sharanya (22R11A05Y7), CSE Dept., Mr.Relangi Tarun Kumar (22R11A05X9), CSE Dept., Gandhari Aarush Raj (22R11A6613) AIML Dept.,** are the Winners at the event titled **2nd edition of the Inventors Challenge 2023",** organized by AICTE, Ministry of Education, Arm Education and STMicro electronics , and **received Rs.50,000 cash prize, for the idea titled "Holesols",** on 20-11-2023.


दैनिक जनता की खोज

दिल्ली-गाजियाबाद-नोएडा

प्रतियोगिता में प्रस्तुत किए गए थे 1370 आइडिया, आठ टीमें घोषित की गई विजेता

सेमीकंडक्टर के क्षेत्र में भारत को आत्मनिर्भर बनाने की दिशा में एआईसीटीई ने आयोजित किया इन्वेंटर्स चैलेंज 2023

**V.R.Sai Sharanya**
(22R11A05Y7)
Department of CSE
**Winner in "The Inventors Challenge 2023" (Organized by AICTE) and received ₹50,000/-**

**Relangi Tarun Kumar**
(22R11A05X9)
Department of CSE
**Winner in "The Inventors Challenge 2023" (Organized by AICTE) and received ₹50,000/-**

**Gandhari Aarush Raj**
(22R11A6613)
Department of AIML
**Winner in "The Inventors Challenge 2023" (Organized by AICTE) and received ₹50,000/-**

## Student Achievements

- **Ms. D. Sree Sai Soujanya(20R11A0573),** has got an **internship opportunity in "AMAZON" for SDE Role (Jan to June 2024) with a Stipend of Rs.1,10,000/-per month.**


- **Mr. Karthik (21R15A0507), Mr. Nithin Kumar (21R15A0508), Mr.G.Tejas(20R11A0577),** both teams are runner-up at **Hack day International event** conducted by **VIT-AP,** held on 05th Aug, 2023.

**B. Karthik**

**G. Nithin Kumar**

**G.Tejas**

- **Bari Sharath Kumar (20R11A0568)** has won **2nd prize in National Level coding contest titled "Code Sprint 1.0",** organized by Geethanjali college of Engineering and Technology, held on 19-July-2023.
- **Mr. Borapureddi Uma Mahesh (21R11A0562),** received **"Elite+gold" NPTEL certification** for the course titled **"Bigdata Computing",** organized by IIT Patna during JULY - OCT 2023.
- **Ms. Ravula Sai Monisha(22R11A0579),** received **"Elite+Silver" NPTEL certification** for the course titled **"Problem Solving Through Programming in 'C',** organized by IIT Kharagpur during JULY - DEC 2023.

**Ms. R. Sai Monisha**

**Mr. B. Uma Mahesh**


**Mr. B. Sharath Kumar**

## Student Achievements

| S.No. | Student Name/ Roll Number | Name of the Event | Name of the College/University | Date (s) of Participation | Specify Prize Won |
|---|---|---|---|---|---|
| 1. | B.Sharth Kumar (20R11A0569 ) | Code Sprint1.0 | GCET | 22-7-2023 | II Prize |
| 2. | G.Nithin Kumar (21R15A0508) | Hackday | VIT-AP | 05-08-2023 | RunnerUp |
| 3. | G.Tejas (20R11A0577 ) | Hackday | VIT-AP | 05-08-2023 | RunnerUp |
| 4. | Karthik (21R15A0509 ) | Hackday | VIT-AP | 05-08-2023 | RunnerUp |
| 5. | R.Tarun Kumar (22R11A05X9 ) | The Inventor Challenge 2023 | AICTE | 20-11-2023 | Winner |
| 6. | V.R Sharnya (22R11A05Y7 ) | The Inventor Challenge 2023 | AICTE | 20-11-2023 | Winner |
| 7. | Nand Kishore (21R11A05N1) | IEEE Xtream 17.0 | GCET | 28-10-2023 | 517 (Global Rank) |
| 8. | E. Dhanush (21R11A0567 ) | IEEE Xtream 17.0 | GCET | 28-10-2023 | 518 (Global Rank) |
| 9. | Sai Vardhan Reddy (21R11A0593 ) | IEEE Xtream 17.0 | GCET | 28-10-2023 | 518 (Global Rank) |
| 10. | Naveen R (21R11A0589 ) | IEEE Xtream 17.0 | GCET | 28-10-23 | 518 (Global Rank) |
| 11. | A Bhavya Sri (21R11A05A5 ) | IEEE Xtream 17.0 | GCET | 28-10-2023 | 517 (Global Rank) |
| 12. | Praneeth Kumar Reddy (21R11A05L6 ) | IEEE Xtream 17.0 | GCET | 28-10-2023 | 744 (Global Rank) |
| 13. | Prakash Reddy (21R11A05Q8 ) | IEEE Xtream 17.0 | GCET | 28-10-2023 | 744 (Global Rank) |
| 14. | Sandeep Reddy (21R11A05M2 ) | IEEE Xtream 17.0 | GCET | 28-10-2023 | 744 (Global Rank) |
| 15. | Shashank Chepuri (22R11A05K4 ) | IEEE Xtream 17.0 | GCET | 28-10-2023 | 832 (Global Rank) |
| 16. | Kanduri Shruthi (22R11A05L3 ) | IEEE Xtream 17.0 | GCET | 28-10-2023 | 832 (Global Rank) |

## Student Qualified in SWAYAM NPTEL Courses during JULY –DEC 2023

| S.No. | Student Name/ Roll Number | Course Name | Course Duration | Course Offered by the Institute | Certificate Type |
|---|---|---|---|---|---|
| 1. | Borapureddi Uma Mahesh (21R11A0562) | Problem Solving Through Programming in 'C' | 12 Weeks JULY– DEC 2023 | IIT Kharagpur | Elite+gold |
| 2. | AYESHA (22R11A0505) | Problem Solving Through Programming in 'C' | 12 Weeks JULY-OCT 2023 | IIT Kharagpur | Elite |
| 3. | Dronavalli Swathi (22R11A0513) | Problem Solving Through Programming in 'C' | 12 Weeks JULY-OCT 2023 | IIT Kharagpur | Elite |
| 4. | Madishetti Rachana (22R11A0571) | Problem Solving Through Programming in 'C' | 12 Weeks JULY-OCT 2023 | IIT Kharagpur | Elite |
| 5. | Yashaswini (22R11A0575) | Problem Solving Through Programming in 'C' | 12 Weeks JULY-OCT 2023 | IIT Kharagpur | Elite |
| 6. | Ravula Sai Monisha (22R11A0579) | Problem Solving Through Programming in 'C' | 12 Weeks JULY-OCT 2023 | IIT Kharagpur | Elite+Silver |
| 7. | Surnam Sirisha (22R11A0588) | Problem Solving Through Programming in 'C' | 12 Weeks JULY-OCT 2023 | IIT Kharagpur | Elite |
| 8. | B Sasha (22R11A05P8) | Body Language: Key To Professional Success | 4 Weeks JULY-OCT 2023 | IIT Roorkee | Elite |
| 9. | Surnam Sirisha (22R11A0588) | Programming, Data Structures And Algorithms Using Python | 8 Weeks JULY-DEC 2023 | Chennai Mathematical Institute | Elite |
| 10. | B SAI SATHVIKA (22R11A05P5) | Foundations Of Cognitive Robotics | 4 Weeks JULY-DEC 2023 | IIT Kanpur | Elite |
| 11. | KAVURU SRI SMRUTHI SRESHTA (22R11A05Q7) | Foundations Of Cognitive Robotics | 4 Weeks JULY-DEC 2023 | IIT Kanpur | Elite |

## Student Qualified in SWAYAM NPTEL Courses during JULY –DEC 2023

| S.No. | Student Name/ Roll Number | Course Name | Course Duration | Course Offered by the Institute | Certificate Type |
|---|---|---|---|---|---|
| 12. | Amulya Nookala (22R11A05R8) | Foundations Of Cognitive Robotics | 4 Weeks JULY-DEC 2023 | IIT Kanpur | Elite |
| 13. | Neelima Sanapathi (22R11A05T5) | Foundations Of Cognitive Robotics | 4 Weeks JULY-DEC 2023 | IIT Kanpur | Elite |
| 14. | N Karthikeya Reddy (22R11A05R6) | Design Thinking - A Primer | 4 Weeks JULY-DEC 2023 | IIT Madras | Elite+Silver |

## Faculty Qualified in SWAYAM NPTEL Courses during JULY - DEC 2023

| S.NO. | Faculty Name | Course Name | Course Duration | Course Offered by the Institute | Certificate Type |
|---|---|---|---|---|---|
| 1. | Radha Seelaboyina | Python For Data Science | 4 Weeks July - Dec 2023 | IIT Madras | Elite |
| 2. | Radha Seelaboyina | Introduction To Industry 4.0 And Industrial Internet Of Things | 12 Weeks July - Dec 2023 | IIT Kharagpur | Elite |
| 3. | P Sobha Rani | Problem Solving Through Pro-gramming In C | 12 Weeks July - Dec 2023 | IIT Kharagpur | Elite+Silver |
| 4. | Dr. A. SreeLakshmi | Google Cloud Foundation certification | July 2023 to Sept 2023 | Google | Google Cloud certification |
| 5. | V. Shiva Narayana Reddy | Google Cloud Foundation certification | July 2023 to Sept 2023 | Google | Google Cloud certification |
| 6. | A. Abhilasha | Google Cloud Foundation certification | July 2023 to Sept 2023 | Google | Google Cloud certification |

## Faculty Qualified in MOOC Courses during JULY - DEC 2023

| S.NO. | Faculty Name | Course Name | Course Duration | Course Offered by the Institute | Certificate Type |
|---|---|---|---|---|---|
| 7. | M. Viswashanthi | Google Cloud Foundation certification | July 2023 to Sept 2023 | Google | Google Cloud certification |
| 8. | P.Ushashree, E Vijaya | Certified under Oracle on Artificial Intelligence with Machine Learning in Java | August 2023 | Oracle Academy | Successfully Completed |
| 9. | P.Ushashree, R.Sukruta, G. Udayasree | Certified under Cisco network academy on PCAP: Programming Essentials in Python | August 2023 | CISCO | Successfully Completed |
| 10. | M. Vishwashanthi | Certified under Oracle on Java Fundamentals | August 2023 | Oracle Academy | Successfully Completed |
| 11. | M. Vishwashanthi | Certified under Cisco network academy on Introduction to Cyber Security | August 2023 | CISCO | Successfully Completed |
| 12 | G. Udayasree | Certified under Cisco network academy on Introduction to Cyber Security | August 2023 | CISCO | Successfully Completed |
| 13 | R.Sukruta, J .Meena sravanthi | Certified under Oracle on Artificial Intelligence with Machine Learning in Java | August 2023 | Oracle Academy | Successfully Completed |

# CYBER SECURITY CLUB ACTIVITIES

**CYBER CONGRESS 2023:** The annual flagship event was conducted by the Cyber Security club of Geethanjali College of Engineering and Technology, held on 27th October and 31st October, 2023. A Total of 188 students participated in the cyber congress event. The faculty coordinators for the cyber congress were **Mrs. B. Mamatha**, Assistant Professor, CSE Dept. and **Mrs. G. HimaBindu**, Assistant Professor, CSE-CS Dept. The objective of the CYBER CONGRESS is to train, empower and equip the young generation the knowledge and skills required to protect themselves and their communities from cyber crimes. The event was successfully held comprising various guest lectures and fun activities which were both informative and encouraging for students.

- **The following sessions are conducted as part of Cyber Congress 2023:**

| Date / Time | Title of the Session | Resource Person |
|---|---|---|
| 27-10-2023<br>11:00AM - 12:00 PM | Introduction to Cyber Security | Mr. Rupesh Mittal,<br>Cyber Jagrithi |
| 27-10-2023<br>02:00PM - 03:00 PM | Now a days in WebAppSec | Mr. Sukesh Pappu,<br>Domdog |
| 28-10-2023<br>11:00AM - 12:00 PM | Operating System Fundamentals<br>Linux / Windows | Mr. Upendra Reddy,<br>Supraja Technologies |
| 28-10-2023<br>02:00PM - 04:00 PM | Workshop on Computer Networks /<br>Network Security | Mr. Upendra Reddy,<br>Supraja Technologies |
| 28-10-2023<br>04:20PM - 05:20 PM | OSINT for information gathering | Mr. Moutan Sarkar,<br>SDM at TCS |
| 30-10-2023<br>10:00AM to 11:00AM | Inauguration / Key Note Session | 1.Mr. Sriram Birudavolu,<br>CEO of Cyber security centre of excellence DSCI, Hyderabad<br>2. Mr. Anil Rachamalla,<br>Founder - EndNow Foundation |
| 30-10-2023<br>11:00AM - 12:00 PM | Cyber Awareness | Mr. Anil Rachamalla,<br>Founder - EndNow Foundation |
| 30-10-2023<br>01:00PM - 01:30 PM | Session on Cyber Security as a career | Mr. Bheem Reddy,<br>Co Founder, CEO - Offensive Defense |
| 30-10-2023<br>02:00PM - 05:00 PM | Workshop on WebApp Pentest | Ms. Swara Somala,<br>Information Security Professional |
| 31-10-2023<br>10:00AM - 12:00 PM,<br>03:15PM—04:00PM | Workshop on Digital Forensics,<br>Career Opportunities in Cyber Security | Mr. Sai Krishna,<br>Cyber Security Consultant at Cyber Security - CoE, Telangana |

Volume 12, Issue 1

# CYBER CONGRESS 2023


Volume 12, Issue 1

# CYBER CONGRESS 2023

## ROBOTICS CLUB ACTIVITIES

- A Workshop on **"3D Printing"** was conducted for B.Tech. II and III Year students, held on 3rd August, 2023 by the **Robotics Club** of Geethanjali College of Engineering & Technology. A Total of 60 students attended the workshop. The resource person for the workshop was **Mr. Vinay Kumar Samudrala,** 3D Print Engineer, Niltech R&D Pvt. Ltd.


**Workshop on "3D Printing"**

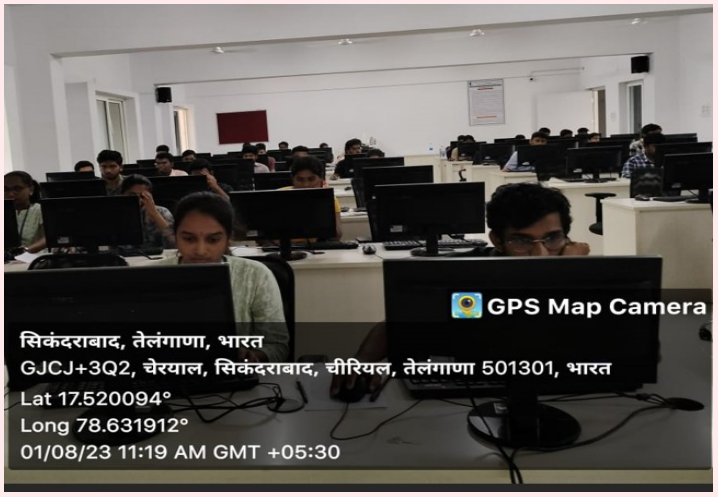
- **A Training Program** on **"Arduino Programming"** was conducted for B.Tech. II, III and IV Year students from 01st December 2023 to 15th February, 2024. The resource person for the workshop was **Mr. M. Anand,** Assistant Professor, ECE Dept. A Total of 50 students attended the program.

# CODING CLUB ACTIVITIES

| S.No. | Name of the Event | Event Date | Total participants | CSE Students participated |
|---|---|---|---|---|
| 1 | Code Sprit 1.0 | 20-07-2023, 22-07-2023 | 298 | 143 |
| 2 | Code Create Connect | 01-12-2023 | 200 | 88 |

**List of Winners at National Level Event "CodeSprint 1.0":**

| S.NO. | STUDENT NAME | ROLL NUMBER | COLLEGE NAME | Prize Won |
|---|---|---|---|---|
| 1 | Shiva Nanda Reddy | 20BD1A6616 | Keshav Memorial Institute of Technology | I |
| 2 | Bari Sharath Kumar | 20R11A0568 | Geethanjali College of Engineering and Technology | II |
| 3 | Laxmi kanth reddy | 20BD1A6625 | Keshav Memorial Institute of Technology | III |


**Code Sprit 1.0**

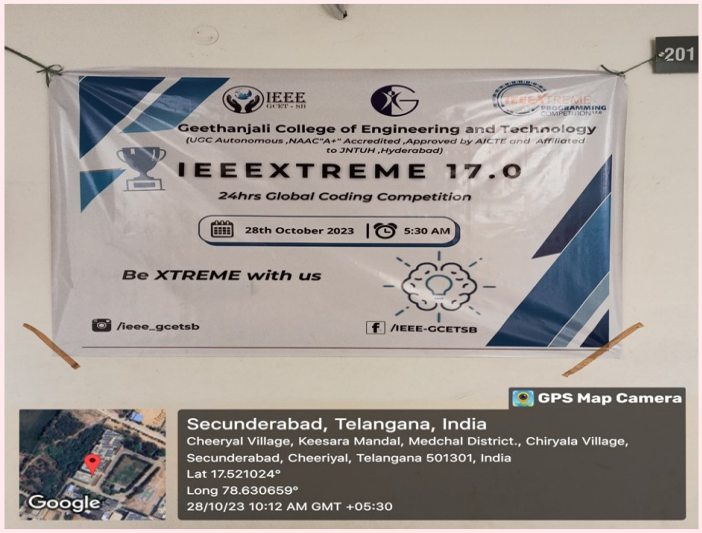


**"Code Create Connect" Event**

## Professional Society Activities (IEEE)

| S.No. | Module Description | Duration | Coordinator | Date | Number of Participants |
|---|---|---|---|---|---|
| 1 | IEEE Day Techno Sparkz 2k23 | 1 day | Dr. Aruna Bharathi, Dr. Neha Nandal | 12/10/2023 | CSE - 34 |
| 2 | IEEE Xtreme 17.0 | 1 day | Dr. Neha Nandal | 28/10/2023 to 29/10/2023 | CSE - 15 |

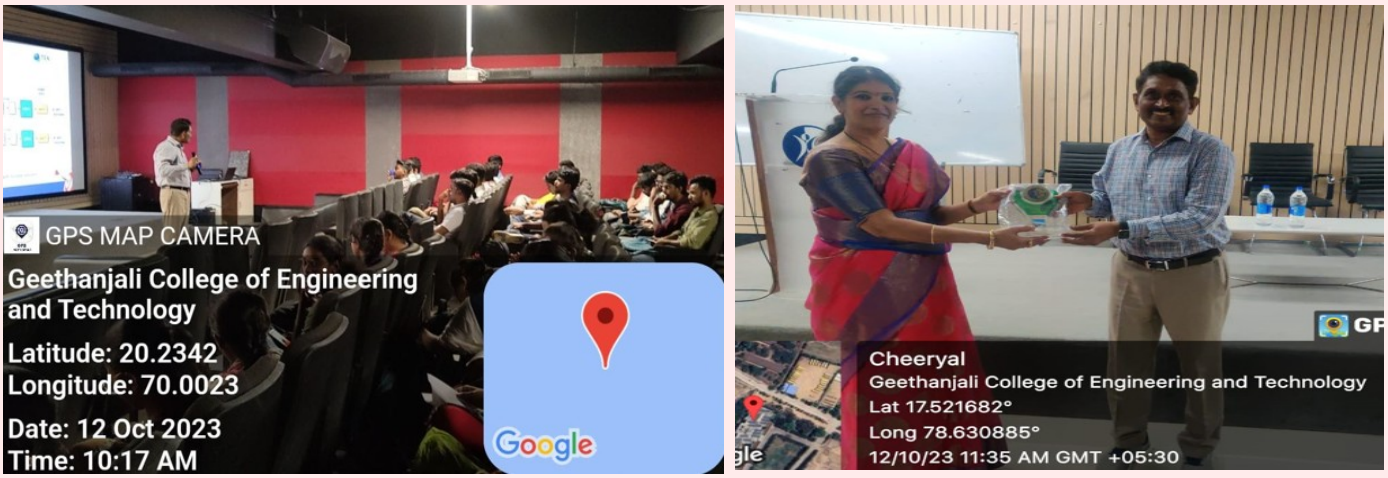
**IEEE Xtreme 17.0:** A 24-hour coding competition, "IEE Extreme 17.0," was organized by IEEE SB GCET. The event took place from 5:30 a.m. on October 28, 2023, to 5:30 a.m. on October 29, 2023. A total of 20 teams, consisting of 48 students from our college, participated in the competition.





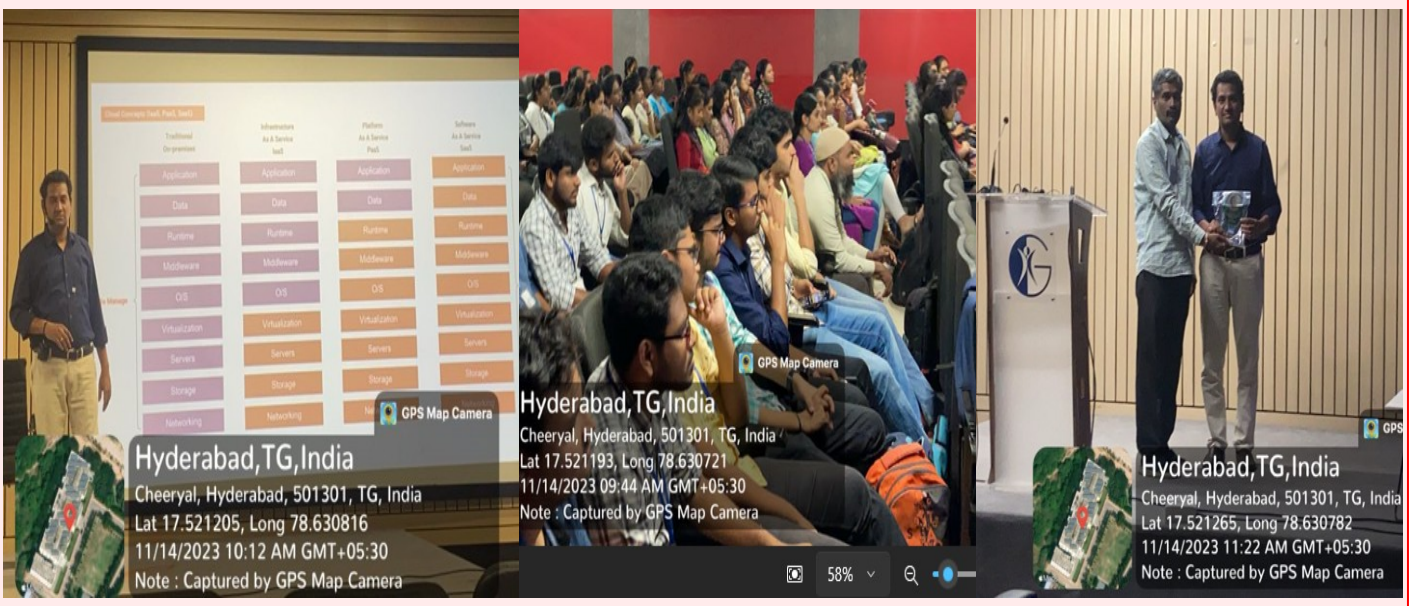
## Guest Lectures/Workshops conducted for Students

- **Guest Lecture** on **"Introduction to Apache Spark "** was conducted for IV Year CSE students on 12th October, 2023. The resource person for the guest lecture was **Mr. A. Nagaraju,** BigData Minds Founder, IT Consultant and Chief Coach, Hyderabad. A Total of 100 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 "Introduction to Apache Spark"**

- **Guest Lecture** on **"MICROSOFT AZURE"** was conducted for IV Year CSE students on 14th November, 2023. The resource person for the guest lecture was **Mr. Guru Kumar Soma,** Application Development Specialist, Accenture, Hyderabad. A Total of 106 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 "MICROSOFT AZURE"**

## Guest Lectures/Workshops conducted for Students

- **A Workshop** on **"Solidity in Block Chain Technology"** was conducted for IV Year CSE students from 21st - 22nd July, 2023. The resource person for the workshop was **Mr. Dipesh Sukhani,** CoFounder, Build Bear labs. A Total of 45 students attended the program. The Coordinator for the workshop was Dr. K. Kamakshaiah, Associate Professor, CSE Department.
- **Guest Lecture** on **"Agile Modeling and Software Project Management"** was conducted for III Year CSE students on 21st December, 2023. The resource person for the guest lecture was **Mr. Tiruvanagiri Mohan Sravanthi,** DevOps Engineer, PepsiCo GBS, Hyderabad. A Total of 192 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.

## Industrial Visit

- A **Industrial Visit to "ServiceNow",** Hyderabad, held on 16-11-2023. A Total of 05 CSE students and one faculty member of the CSE Department have visited the **"ServiceNow"** Company. The Coordinator for the Industrial Visit was **Dr. Madhuri Gupta,** Associate Professor, CSE Dept., GCET.
- List of students visited the **"ServiceNow"** company:

| S.No. | Student Name | Roll Number | Branch | Micro Certification course |
|---|---|---|---|---|
| 1 | MAMILLA RITHIKA | 21R11A05D0 | CSE | Completed the SerivceNow micro certification course |
| 2 | MANDADI HARSHITHA REDDY | 21R11A05D2 | CSE | |
| 3 | SURAJ KUMAR PANDA | 21R11A05F0 | CSE | |
| 4 | ILAPANDA RENUKA | 20R11A0585 | CSE | |
| 5 | BANDI JASWANTH | 20R11A6604 | AIML | |


**Industrial Visit to "ServiceNow",** Hyderabad

## 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

## Value Added Courses conducted for Students

- A Value Added Course on **"Python Programming"(40 Hours course)** was conducted for B.Tech. II Year I sem CSE students from 07th October, 2023 to 06th January, 2024 on every Saturday in a week. A Total of 127 CSE students attended the program. The resource person for "Python Programming" course was **Mr. K. Kiran Kumar,** Data Science Engineer, Micron Technology, Hyderabad. The Coordinator for the VAC is Mr. T. Rakesh Kumar, Assistant Professor, CSE Dept., GCET.



Value Added Course on **"Python Programming"**

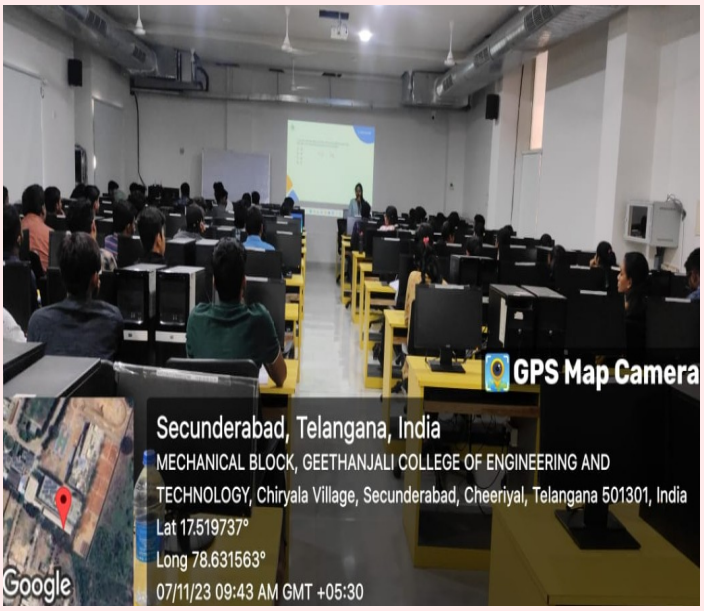
- A Bridge Course on **"C Programming" (30 Hours course)** was conducted for II Year I Semester Lateral Entry Students from 07th October, 2023 to 30th December, 2023 on every Saturday in a week. A Total of 93 students attended the program. The resource person for "C Programming" course was **Dr. K. Raghu**, Associate Professor, CSE Department, GCET.



Bridge Course on **"C Programming"**

## Training Programs/Student Development Programs

- Training Program on **"Programming Skills"** was conducted for B.Tech. CSE III Year students during the period 19th Sept, 2023 to 14th October, 2023 and 30th October 2023 to 08th November, 2023 and 16th November,2023 to 02nd January, 2024 on every Monday and Tuesday in a week. The CSE department faculty coordinator for the training program was Mrs. G. Santoshi, CSE Dept., GCET. A Total of 150 students attended the training program. The resource person for the training program was faculty from **Cantilever Labs.**


**Cantilever Labs** Training Program on **"Programming Skills"**

- Training Program on **"Advanced Programming Skills"** was conducted for B.Tech. CSE III Year students from 19th September, 2023 to 02nd January, 2024. 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"**

## Faculty Development Programs

- AICTE Sponsored one week Faculty Development Program on **"Blockchain Technology"** was conducted from 13th to 18th November, 2023, organized by the **Department of Computer Science and Engineering** of Geethanjali College of Engineering & Technology**.** The resource persons for the FDP were **Dr.Sanjaya Kumar Panda,** Assistant Professor, NIT Warangal, **Prof. Subhrakanta Panda,** Associate Professor, BITS, Hyderabad, **Mr. Prasanth Sahoo,** Professional Scrum Master | Microsoft Certified Trainer | Technical Reviewer | Blockchain Certified Trainer, **Mr. Siva Ram Shastri Jonnalagadda**, Co-founder of Hyderabad DAO, **Ms. K. IndraVeni,** Joint director - CDAC, Hyderabad, **Dr. Kannan Srinathan,** Assistant Professor, IIIT Hyderabad, **Dr. Preeti Chandrakar,** Assistant Professor, NIT Raipur, **Mr. Akash Rao Mallareddy,** Regional Ambassador-AlgoBharat and **Dr.A. SreeLakshmi,** Professor, CSE Dept., GCET. A Total of 55 faculty members (External faculty: 41, GCET faculty: 14) attended the FDP. The Coordinator for the FDP was Dr. A Hari Prasad Reddy, Associate Professor, Dept. of CSE, GCET and Co-coordinator is Dr. Kamakshaiah, Associate Professor, Dept. of CSE, GCET
- CSE Department of Geethanjali College of Engineering and Technology, received **Rs.3,50,000/-** as a grant-in-Aid for conducting Face to Face one week Faculty Development Programme on "BlockChain Technology" under AICTE Training and Learning (ATAL) Academy program which was conducted during 13-11-2023 to 18-11-2023.



## AICTE Sponsored one week FDP on "Blockchain Technology"







- A Seminar on "**Teaching-Learning and Connecting with Students by involving them in the learning Process**" conducted from 7th October, 2023, organized by the Department of Computer Science and Engineering of Geethanjali College of Engineering & Technology. The Resource Person for the seminar was **Dr. S. Udaya Kumar**, Professor & Principal, GCET. The Coordinator for the seminar was Ms. G. UmaDevi, Sr. Assistant Professor, CSE Dept., GCET.

## Faculty Publications during July 2023 to Dec 2023

| S.No. | Faculty Name | Title of the Paper | Journal Name/ Conference | Volume No., Issue No., Page No., ISSN | Month & Year of Publication |
|---|---|---|---|---|---|
| **1.** | Dr. Zubair Ali Ansari | Enhanced subgraph matching for large graphs using candidate region-based decomposition and ordering | Journal of king Saud University-Computer and Information Sciences | 1319-1578 **(SCI)** | August 2023 |
| **2.** | Dr. A. Sree Lakshmi | Simulation based Predictive analysis of Indian Airport transportation system using Computational Intelligence techniques | Journal of Aerospace Technology and Management | 1984-9648 **(Scopus and ESCI)** | June 2023 |
| **3.** | Dr. G. Soma Sekhar | Criminality Data Scrutiny Using Logistic Regression Algorithm | International Journal Of Research-GRANTHAALAYAH | 2394-3629 **(UGC)** | July 2023 |
| **4.** | Dr. A. Hari Prasad Reddy | Research on Automating Testing Through the Use of Genetic Algorithms | Mukt Shabd Journal | 2347-3150, Volume XII, Issue VIII, **(UGC)** | August 2023 |
| **5.** | A. Abhilasha | A Methodology to identify brain tumour using deep learning techniques | International Journal for Research in Science Engineering & Technology (IJRSET) | 2394-739X, Volume 10, Issue 2 (**UGC**) | September 2023 |
| **6.** | A. Abhilasha | Amazon virtual private cloud experimental and application | International Journal for Research in Science Engineering & Technology (IJRSET) | 2394-739X, Volume 10, Issue 2 (**UGC**) | September 2023 |
| **7.** | Dr. Neha Nandal | A Walk-through towards network Steganography Techniques | Informatics and Automation | 2713-3192 (print), 2713-3206 (online), volume 22, Issue 5 (**Scopus**) | September 2023 |

## Faculty Publications during July 2023 to Dec 2023

| S.No. | Faculty Name | Title of the Paper | Journal Name/ Conference | Volume No., Issue No., Page No., ISSN | Month & Year of Publication |
|---|---|---|---|---|---|
| **8.** | Dr. K. Raghu | Deep Learning Algorithms for Speech Emotion Recognition with Hybrid Spectral Features | SN Computer Science | 2662-995X, Volume 5, Issue 1 (**Scopus**) | November 2023 |
| **9.** | Prathima Kandi | Efficient Resource Utilization in Kubernetes: A Review of Load Balancing Solutions | IJIREM | 2350-0557, Volume 10, Issue 6, 44-48 (**UGC**) | December 2023 |
| **10.** | Prathima Kandi | Kubernetes and Docker Load Balancing: State-of-the-Art Techniques and Challenges | IJIREM | 2350-0557 Volume 10, Issue 6, 49-54 (**UGC**) | December 2023 |

## Status of Implementation of Projects

| S.No. | PI/ CO-PI | Project Title | Start Date (Duration) | Project Cost | Sponsoring Organization |
|---|---|---|---|---|---|
| **1.** | Ms. S. USHASWI (20R11A05H6), Ms. P. LALITHA, Assistant Professor | AGRITECH BOT – IOT FARMING SOLUTION | 13-10-2023, 6 Months | **Rs. 9,760** | GCET |
| **2.** | Ms. K. ANUSHA (20R11A05E6), Ms. P. DEEPLAXMI, Assistant Professor | ADVANCED DUMPSTER MONITORING SYSTEM | 13-10-2023, 6 Months | **Rs. 4956** | GCET |
| **3.** | Mr. P. TARUN KUMAR (20R11A05G3), Dr. A. HARI PRASAD REDDY, Associate Professor | VEHICLE ACCIDENT PREVENTION AND REPORTING SYSTEM USING GPS AND GSM | 13-10-2023, 6 Months | **Rs. 8132** | GCET |
| **4.** | Dr.A SREELAKSHMI, Professor & HoD-CSE, V.SHIVANARAYANA REDDY Associate Professor | PRIDICTIVE MAINTENANCE OF STEAM DISTILLATION UNITS | 17-04-2023, 20 Months (Ongoing) | **Rs. 46,618** | GCET |

# ICCIML 2023

- **3rd International Conference on Computational Intelligence in Machine Learning (ICCIML - 2023)** was organized by CSE Department of Geethanjali College of Engineering & Technology, Hyderabad, India and joint Collaboration with University of Science & Technology, Chittagong, Bangladesh, held on 24th to 25th November, 2023.
- The **Program Chair** of the conference were **Dr. V. Madhusudan Rao,** Professor & Dean-SCSI, GCET and **Dr. A. Sree Lakshmi,** Professor & HoD-CSE, GCET. The **Conference Secretary** was **Dr. Puja S Prasad,** Associate Professor, CSE Dept., GCET. The **Chief Patron** of the conference was **Sri. G. R. Ravinder Reddy,** Chairman, Geethanjali Group of Institutions and **Patron** of the conference was **Dr. S. Udaya Kumar,** Principal, Geethanjali College of Engineering and Technology.
- The **Chief Guest** for the inaugural session of conference is **Mr. Shrikant Sinha, CEO - TASK,** Past CEO - NASSCOM Foundation.
- The **Chief Guest** for the valedictory session of conference was **Dr. S. Bapiraju,** Professor, IIIT Hyderabad, Ph.D (University of Texas, Arlington).
- The Key Note Speaker for the conference on DAY 1 was **Dr. Arghya Pal,** Ph.D (IIT Hyderabad, India), Postdoc. Researcher (Harvard University, Monash University).
- The Key Note Speaker for the conference on DAY 2 was **Dr. S. Nagender Kumar,** Associate Professor, University of Hyderabad and Assistant Director - Centre for Digital Learning and Training Resources, University of Hyderabad, India.
- List of accepted papers were categorized into Four Different Tracks.

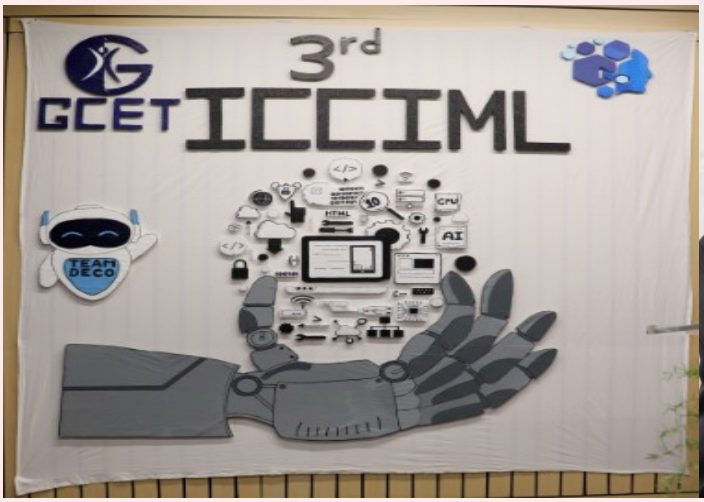
Track 1: Applied Machine Learning

Track 2:Computational Intelligence

Track 3: Data Analytics and Optimization

Track 4: Machine Learning in Inter Disciplinary Areas

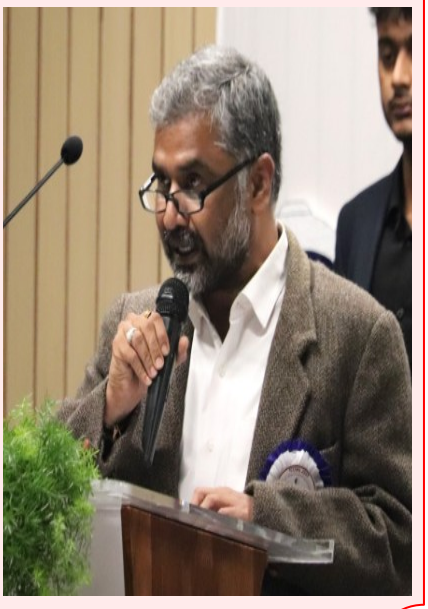
**ICCIML 2023 Photos:**




Volume 12, Issue 1

## ICCIML 2023





## ICCIML 2023


Valedictory Ceremony
November 25, 2023
Chief Guest
Dr. Bapi Raju S
Professor, IIIT Hyderabad
Delegates and Participants
Organized by
Gokaraju Rangaraju Institute of Engineering and Technology


GCET


amazon
NETFLIX
yelp
Uber
Booking

## 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 VI-NAY | 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 | SHRIKERAA 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 | BLUSAPHHIRE | 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 SESHA 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 SO-LUTIONS 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 |

## 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 | BLUSAPHHIRE | 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 |

## Student Higher Studies of 2019 - 2023 batch

| S.No. | Roll Number | Student Name | TOEFL/ GRE/ IELTES/DUOLINGO | UNIVERSITY/PROGRAM |
|---|---|---|---|---|
| 1 | 19R11A0503 | UDAY KIRAN ALIMI | IELTS,GRE | University of Cincinnati/ (MEng) in Computer Science. |
| 2 | 19R11A0505 | D HIMA SAMIIRR | IELTS,GRE | University of South Dakota/ MASTER'S IN Computer and Information Sciences |
| 3 | 19R11A0518 | K SOWMYA SREE | GRE | California University, East Bay/Master's in Statistics |
| 4 | 19R11A0548 | V NEERAJA | IELTS | University of Wisconsin Miwaukee / Master's in Computer Science |
| 5 | 19R11A0552 | BHAVANA REDDY BANURI | IELTS | University of Maryland, Baltimore County (UMBC)/ MS(Data Science) |
| 6 | 19R11A0563 | VAISHNAVI GANDHI | GRE | New Jersey Institute of Technology/ MASTER'S in Computer and Information Sciences |

## Student Higher Studies of 2019 - 2023 batch

| S.No. | Roll Number | Student Name | TOEFL/ GRE/ IELTES/DUOLINGO | UNIVERSITY/PROGRAM |
|---|---|---|---|---|
| 7 | 19R11A0576 | M AKASH REDDY | TOFEL,GRE | Missouri State University/ Master of Science in Computer Science |
| 8 | 19R11A0579 | N.LASYA PRIYA | GRE,IELTS | University of North Texas/ MASTER'S in Computer and Information Sciences |
| 9 | 19R11A0581 | ROHAN KAUSIK NANDULA | GRE,IELTS | North Carolina State University/Master of Computer Science (MR) |
| 10 | 19R11A0589 | RITIKAA KAILAS | IELTS | New Jersey Institute of Technology/MASTER'S in Computer and Information Sciences |
| 11 | 19R11A0591 | SIRI SANAGANDLA | IELTS | University of Oklahoma/ MASTER'S in Computer and Information Sciences |
| 12 | 19R11A0593 | THALLA LOKESH REDDY | GRE/TOEFL | Saint Louis University/Master of Science in Information Systems |
| 13 | 19R11A05C9 | P.BADRINATH REDDY | DUOLINGO | Stony Brook University/ Master's in Data Science |
| 14 | 19R11A05E3 | NIKHITA REDDY | IELTS | Robert Morris University/ MASTER'S in Information Science |
| 15 | 19R11A05G2 | G.SHEBA RANI | GRE | Cleveland State University/ Master of Information Systems |
| 16 | 19R11A05H4 | K.AKHILA | GRE | University of New Haven/MS in Information Science |
| 17 | 19R11A05J1 | P SHIVANI | GRE | Stevens Institute of Technology/Master of Science in Information Systems |
| 18 | 19R11A05J4 | PUVVADA ABHINAYA | IELTS | Texas Tech University/MS ( Computer science) |
| 19 | 19R11A05J5 | JAYANI RACHAPUDI | IELTS | Universität Koblenz/Master's program Web & Data Science |
| 20 | 19R11A05L4 | RAJYA LAKSHMI | GRE,IELTS | University of Central Florida/ MASTER'S in Computer and Information Sciences |

## Student Higher Studies of 2019 - 2023 batch

| S.No. | Roll Number | Student Name | TOEFL/ GRE/ | UNIVERSITY/PROGRAM |
|---|---|---|---|---|
| 21 | 19R11A05K4 | PREETHI PAVANI | IELTS | Texas Tech University/MS (Computer science) |
| 22 | 19R11A05P8 | SURAM MAHESH REDDY | IELTS | Lamar University/MS (Computer Science) |
| 23 | 19R11A0570 | GUNA K | TOEFL,GRE | New Jersey Institute of Technology/ MASTER'S in Computer and Information Sciences |
| 24 | 19R11A0575 | MARKALA MANASWINI | GRE | University at Albany/ MS(CS) |
| 25 | 19R11A05N4 | MYSON SUNNY RAJ | GRE | ___ |
| 26 | 19R11A05K5 | ROHITH ALLALA | GRE | ___ |
| 27 | 19R11A0511 | DINESH REDDY | GRE | ___ |
| 28 | 19R11A0571 | SHASHIDHAR | GRE/IELTS | ___ |
| 29 | 19R11A0519 | K.SRIYA | IELTS,GRE | ___ |
| 30 | 19R11A0522 | MAMIDI LIKHITHA | IELTS,GRE | ___ |
| 31 | 19R11A0531 | POLISETTY ANDREW BALA ABHILASH | IELTS | ___ |
| 32 | 19R11A0546 | DINESH REDDY | GRE | ___ |
| 33 | 19R11A0547 | PARITOSH VATTURI | IELTS | ___ |
| 34 | 19R11A0590 | SAMMETA ASHOK KUMAR | GRE | ___ |
| 35 | 19R11A0594 | TUMMEDA AMITH PAAVAN | GRE,IELTS | ___ |
| 36 | 19R11A0595 | SRIKRUTHI VARANASI | GRE | ___ |
| 37 | 19R11A05C3 | MUKKOLLU DINESH | IELTS | ___ |
| 38 | 19R11A05C7 | NARRA NAVYA SRI | GRE | ___ |
| 39 | 19R11A05L6 | VIKAS YADAV | GRE | ___ |

## Student Higher Studies of 2019 - 2023 batch

| S.No. | Roll Number | Student Name | TOEFL/ GRE/ IELTES/DUOLINGO | UNIVERSITY/PROGRAM |
|---|---|---|---|---|
| 40 | 20R15A0524 | LOVEKUSH RAO VUTPALA | GRE | ___ |
| 41 | 19R11A05F3 | CH.MANIRAJ | IELTES | ___ |
| 42 | 19R11A05F2 | CH.VENKATA VIKRAM | Duolingo | ___ |
| 43 | 19R11A0509 | G.EESHWAR | IELTES | ___ |
| 44 | 20R15A0517 | EVA KARRA | TOEFL | ___ |
| 45 | 19R11A05N7 | POSALA BALA NIKHIL | IELTES | ___ |
| 46 | 19R11A0568 | SURYA VARD-HAN REDDY KATTA | GRE | ___ |
| 47 | 19R11A05M9 | MANDA KARTHIK | GRE/IELTS | ___ |
| 48 | 20R15A0520 | MADA SAI KIRAN | GRE | ___ |
| 49 | 19R11A05M2 | JAYADHWAJ REDDY | IELTS | ___ |
| 50 | 19R11A05M3 | PRANATHI PRIYA KORRA | GRE | ___ |

## 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 | Dr.A.Sree Lakshmi | Workshop | Developing Faculty Members as Academic Leaders | 3-7-2023 to 8-7-2023 | IQAC,GCET |
| 2 | Dr.K.Kamakshaiah | Workshop | Developing Faculty Members as Academic Leaders | 3-7-2023 to 8-7-2023 | IQAC,GCET |
| 3 | Mr.V.Shiva Narayana Reddy | Workshop | Developing Faculty Members as Academic Leaders | 3-7-2023 to 8-7-2023 | IQAC,GCET |
| 4 | G.Udaya Sree | Workshop | Blockchain technology for Next generation Applications | 3-7-2023 to 5-7-2023 | J-HUB and UCM, JNTUH in Association with Algorand Foundation |
| 5 | Dr. K Raghu | FDP | Deep Learning for NLP and Computer Vision | 03-July-2023 to 08-July-2023 | GCET |
| 6 | Dr.K Raghu | FDP | Deep Learning for NLP and Computer Vision | 10-July-2023 to 28-July-2023 | CBIT and Excel-R |
| 7 | Dr. G. Soma Sekhar | FDP | Aspects of Effective Teaching | 30-July-2023 to 31-July-2023 | BITS Pilani, Hyderabad |
| 8 | G.Udaya Sree | Workshop | Block chain technology | 1-7-2023 to | JNTUH |
| 9 | A. Abhilasha | FDP | Technology Driven Application | 13-7-2023 to 15-7-2023 | Sathyabama Institute of Science and Technology |
| 10 | Y Siva | FDP | Cyber Security and Digital Forensics-Challenges and Trends | 24-July-2023 to 28-July-2023 | Gayatri Vidya Parishad College for Degree & P.G. Courses, Visakhapatnam, Andhra Pradesh |
| 11 | P DeepLaxmi | FDP | Power of visualization in 'Analytics' | 16/08/2023 to 24/08/2023 | BVRIT , Hyderabad |
| 12 | P.KrishnaRao | FDP | Cloud Infrastructure and AWS Technologies | 21/08/2023 to 25/08/2023 | Pallavi Engineering College, Hyderabad |
| 13 | Ushashree P | FDP | Cloud Infrastructure | 21/08/2023 to 25/08/2023 | JNTUK |
| 14 | K.Prathima | WORK-SHOP | Python and IoT | 7th Aug 2023 to 28th Aug 2023 | Excel IR, Hyderabad |

## 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 | A.Chandrakala | FDP | Cloud Infrastructure and AWS Technologies | 21/08/2023 to 25/08/2023 | AISSMS institute of Information Technology |
| 16 | Dr.A.Sree Lakshmi | Refresher course | Global Cloud Computing Foundation Course | 23-08-2024 | Google cloud |
| 17 | V.Shiva Nararaya Reddy | Refresher course | Global Cloud Computing Foundation Course | 23-08-2024 | Google cloud |
| 18 | M.Vishwa Shanthi | Refresher course | Global Cloud Computing Foundation Course | 23-08-2024 | Google cloud |
| 19 | G Santhoshi | ATAL-FDP | Block chain technology | 13-11-2023 to 18-11-2023 | GCET |
| 20 | K ASHWINI | ATAL-FDP | Block chain technology | 13-11-2023 to 18-11-2023 | GCET |
| 21 | D.Venkateswarlu | ATAL-FDP | Block chain technology | 13-11-2023 to 18-11-2023 | GCET |
| 22 | A Abhilasha | ATAL-FDP | Block chain technology | 13-11-2023 to 18-11-2023 | GCET |
| 23 | Dr Puja S Prasad | ATAL-FDP | Block chain technology | 13-11-2023 to 18-11-2023 | GCET |
| 24 | G.Praveen kumar | ATAL-FDP | Block chain technology | 13-11-2023 to 18-11-2023 | GCET |
| 25 | V Shiva Narayana Reddy | ATAL-FDP | Block chain technology | 13-11-2023 to 18-11-2023 | GCET |
| 26 | Srinivas Mulkalapalli | ATAL-FDP | Block chain technology | 13-11-2023 to 18-11-2023 | GCET |
| 27 | Dr. K Raghu | FDP | Object Oriented System Design | 13-11-2023 to 17-11-2023 | NITTR |
| 28 | E. Mahender | Training Program/Course | Virtual Faculty Buildathon AI/ML WITH Cloud | 21-11-2023 to 2-12-2023 | IBM Skills Build |

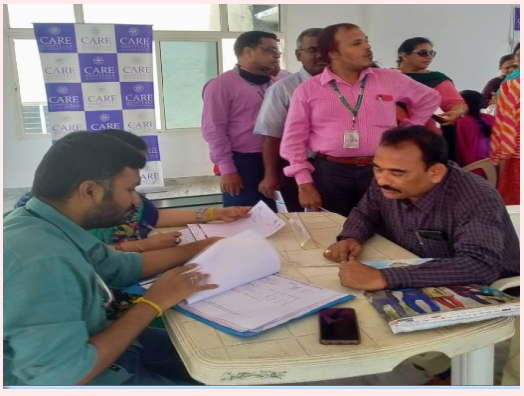
## National Service Scheme (NSS) Activities

| S.No | Name of the Activity | Date of the Activity | Organized by college/ University | Number of Students participated | Number of Faculty participated |
|---|---|---|---|---|---|
| 1 | Survey program for unemployed youth in adopted villages (Thimmaipally, Cheeryal) | 7-7-2023 to 13-7-2023 | NSS unit of GCET in association with JNTUH | 75 | 05 |
| 2 | Haritha Haram | 1-8-2023 | Environmental club of GCET in association with NSS unit | 30 | 05 |
| 3 | Health Camp | 5-8-2023 | GCET - NSS unit in association with Care hospital, Musheerabad | 200 | 05 |
| 4 | One student & one tree | 11-8-2023 | GCET - NSS unit in association with environ-mental club | 150 | 07 |
| 5 | Swaraj Ustav | 14-9-2023 to 16-9-2023 | GCET - NSS unit at Rastrapathi Bhavan-Bolaram | 40 | 01 |
| 6 | Blood Donation Camp | 15-9-2023 | GCET - NSS unit in association with “NTR memorial trust Blood Center” | 70 | 05 |
| 7 | Shramadaan for swachhata | 01-10-2023 | GCET - NSS unit in association with ECO club | 25 | 01 |
| 8 | Khadi Mahotsav | 21-10-2023 to 31-10-2023 | GCET - NSS unit | 183 | 05 |
| 9 | Service at Keesara-gutta Temple | 20-11-2023 to 27-11-2023 | GCET - NSS unit in association with manage-ment of Keesaragutta temple on the occasion of Kartheeka maasam | 35 | 02 |

Volume 12, Issue 1

## Blood Donation Camp


## Health Camp:



Volume 12, Issue 1

## One Student One Tree & Haritha Haaram Event


## Khadi Mahotsav 2023

# Events Organized at Institution Level

**Fresher's Party:**

A freshmen's party was organized by GCET (CSE Dept., and FE Departments) for all 1st and 2nd-year students on September 30, 2022, from 9:30 a.m. to 1 p.m. at the college. A Total of 300 students participated in the event.

**Orientation Day:**

Orientation Day for the newly admitted I Year B. Tech. students for the academic year 2023–24 was organized on August 25, 2023.

# Events Organized at Institution Level

## Bathukamma Festival:

The Bathukamma festival was celebrated at the college under the Fine Arts & Cultural Club on 1st October, 2023.



## Graduation Day:

The 15th Graduation Day was conducted on August 26, 2023, for the B.Tech graduating batch of 2019 - 2023, during which batch toppers were honored with gold medals.

## Alumni Meet:

The 15th Alumni Meet took place at the college premises on December 25, 2023. A Total of 115 alumni attended the event.


**Alumni Meet**

## Student Articles

# "Generative AI Tools"

Generative AI tools are at the forefront of technological innovation, offering powerful capabilities to create content across different mediums. This report provides an overview of notable generative AI tools, highlighting their key features and applications.

### 1. OpenAI GPT-4

**Description**: GPT-4 (Generative Pre-trained Transformer 4) is a state-of-the-art language model developed by OpenAI. It is known for its ability to generate human-like text based on input prompts.

**Key Features**:

- **Text Generation**: Produces coherent and contextually relevant text for a variety of applications, including creative writing, reports, and dialogue.
- **Comprehension and Summarization**: Understands and summarizes large volumes of text efficiently.
- **Conversational Abilities**: Engages in dynamic conversations and provides intelligent responses.

**Applications**:

- **Content Creation**: Assists in drafting articles, blog posts, and marketing copy.
- **Customer Support**: Powers chatbots and virtual assistants.
- **Education**: Helps with tutoring and educational content generation.

### 2. DALL-E 2

**Description**: DALL-E 2, developed by OpenAI, is an advanced image generation model that creates images from textual descriptions.

**Key Features**:

- **Image Synthesis**: Generates high-quality images based on detailed text prompts.
- **Inpainting**: Allows users to edit and add new elements to existing images.
- **Variations**: Creates multiple variations of a given image.

**Applications**:

- **Design**: Assists in generating concepts and visual content for marketing and branding.
- **Art**: Provides artists with new creative possibilities and inspiration.
- **Advertising**: Helps in producing unique and eye-catching visuals for campaigns.

### 3. Midjourney

**Description**: Midjourney is an AI-driven image generation tool known for its focus on artistic and creative visuals.

**Key Features**:

- **Artistic Rendering**: Creates images with a distinctive artistic style based on textual descriptions.
- **Customization**: Allows fine-tuning of art styles and visual elements.
- **Community Collaboration**: Supports collaborative projects and feedback from a community of users.

**Applications of Midjourney**:

- **Art and Illustration**, **Concept Art**, **Social Media.**

### 4. GitHub Copilot

**Description**: GitHub Copilot, developed by GitHub in collaboration with OpenAI, is an AI-powered code completion tool.

**Key Features**:

- **Code Suggestions**: Provides real-time code completions and suggestions.
- **Context Awareness**: Understands code context to generate relevant snippets and functions.
- **Multi-Language Support**: Works with multiple programming languages and frameworks.

**Applications**:

- **Software Development**: Enhances productivity by speeding up coding and reducing errors.
- **Learning and Training**: Helps new developers learn programming languages and practices.

**Code Review**: Assists in reviewing and improving code quality.

### 5. Jasper AI

**Description**: Jasper AI is a content generation tool designed to help with writing and marketing content.

**Key Features**:

- **Content Templates**: Provides templates for various types of content, including blog posts, social media updates, and ad copy.
- **SEO Optimization**: Includes features for optimizing content for search engines.
- **Language Support**: Offers content generation in multiple languages.

**Applications**: **Marketing, Blogging**, **Business Communication**

### 6. Runway ML

**Description**: Runway ML is a platform that offers a suite of AI tools for creative professionals, including image, video, and text generation.

**Key Features**:

- **Creative Toolkit**: Provides tools for generating and manipulating images and videos.
- **Real-time Collaboration**: Supports collaborative projects and real-time feedback.
- **Integration**: Integrates with popular creative software like Adobe Photoshop and Premiere.

**Applications**:

- **Video Production**, **Visual Effects, Art Projects.**

**Conclusion:**

Generative AI tools are rapidly evolving, offering innovative solutions across various fields. From content creation and design to software development and music composition, these tools provide powerful capabilities that enhance creativity and productivity. As the technology continues to advance, it will be essential for users to stay informed about new developments and applications, ensuring they can leverage these tools effectively while addressing potential challenges related to ethics and intellectual property.

**Mr. SHRIKERAA BERAAR**
**(20R11A0552)**

# Big Data Computing

## Understanding Big Data Computing:

Big Data Computing refers to the use of advanced technologies and methodologies to process, analyze, and extract valuable insights from large and complex datasets that traditional data processing tools cannot handle efficiently. These datasets often come from diverse sources, including social media, sensors, transaction logs, and more, and are characterized by their volume, velocity, and variety—commonly known as the "Three Vs" of Big Data.

## Key Technologies in Big Data Computing:

1. **Hadoop**:

o **Overview**: Hadoop is an open-source framework that allows for the distributed processing of large data sets across clusters of computers using simple programming models.

o **Components**:

✦ **HDFS (Hadoop Distributed File System)**: Manages storage by distributing data across multiple machines.

✦ **MapReduce**: A programming model for processing and generating large data sets.

✦ **Applications**: Ideal for batch processing and analyzing large volumes of unstructured data.

**2. Apache Spark**:

o **Overview**: Spark is an open-source, unified analytics engine known for its speed and ease of use in processing big data.

o **Components**:

✦ **Spark SQL**: Provides a programming interface for working with structured and semi-structured data.

✦ **Spark Streaming**: Allows for processing of real-time data streams.

✦ **MLlib**: A library for scalable machine learning algorithms.

**Applications**: Used for real-time analytics, iterative processing, and advanced analytics.

**3. NoSQL Databases**:

o **Overview**: Unlike traditional SQL databases, NoSQL databases are designed to handle unstructured data and scale horizontally.

o **Types**:

✦ **Document Stores** (e.g., MongoDB): Store data in JSON-like documents.

✦ **Column Stores** (e.g., Cassandra): Organize data by columns rather than rows.

✦ **Key-Value Stores** (e.g., Redis): Use key-value pairs to manage data.

✦ **Graph Databases** (e.g., Neo4j): Store and query data with complex relationships.

**Applications**: Suited for handling diverse data types and providing high availability and scalability.

**4. Data Warehousing Solutions**:

o **Overview**: Data warehouses aggregate data from multiple sources into a single repository for analysis.

o **Examples**: Amazon Redshift, Google BigQuery, Snowflake.

**Applications**: Ideal for complex queries, business intelligence, and historical data analysis.

## Applications of Big Data Computing:

1. **Healthcare**:

o **Personalized Medicine**: Analyzing patient data to tailor treatments to individual needs.

o **Predictive Analytics**: Identifying patterns to predict disease outbreaks and patient outcomes.

o **Finance**:

o **Fraud Detection**: Using machine learning to identify unusual patterns in transaction data.

o **Risk Management**: Assessing market risks and predicting financial trends.

o **Retail**:

o **Customer Insights**: Analyzing purchasing behavior to optimize inventory and personalize marketing strategies.

o **Supply Chain Optimization**: Enhancing logistics and forecasting demand.

o **Transportation**:

o **Traffic Management**: Using real-time data to manage traffic flow and reduce congestion.

o **Fleet Management**: Analyzing data from vehicle sensors to improve maintenance and route planning.

o **Telecommunications**:

o **Network Optimization**: Monitoring network performance and managing bandwidth.

o **Customer Experience**: Analyzing customer interactions to improve service and reduce churn.

## The Future of Big Data Computing:

The field of Big Data Computing continues to evolve, driven by advancements in technology and increasing data volumes. Emerging trends include:

- **Artificial Intelligence (AI) and Machine Learning (ML)**: Integrating AI and ML with big data to enhance predictive analytics and automate decision-making processes.
- **Edge Computing**: Processing data closer to the source to reduce latency and improve real-time analytics.

**Data Democratization**: Making data more accessible to non-technical users through intuitive tools and visualizations.

**Ms. KOLETI PAVANI PRIYA**
**(20R11A0590)**

## The Rise of AI Tools: Transforming Industries and Daily Life

In recent years, artificial intelligence (AI) has transitioned from a futuristic concept to a ubiquitous force driving innovation across multiple sectors. From automating routine tasks to providing deep insights, AI tools are reshaping how we work, learn, and interact with technology. This article explores some of the key AI tools and their transformative effects on various industries.

**1. AI in Healthcare: Revolutionizing Patient Care**

AI tools have become pivotal in healthcare, enhancing both diagnostics and treatment. One notable example is **IBM Watson Health**, which leverages AI to analyze medical literature and patient data, aiding doctors in making more informed decisions. AI-driven imaging tools, like **PathAI**, assist pathologists by identifying patterns in medical images with high precision, potentially catching conditions that might be missed by the human eye.

Another significant development is **AI-based predictive analytics**, which can forecast patient outcomes and recommend personalized treatment plans. This capability not only improves patient care but also optimizes hospital operations by predicting patient admission rates and resource needs.

**2. AI in Finance: Enhancing Decision-Making and Security**

The financial industry has embraced AI for its ability to process vast amounts of data quickly and accurately. **Robo-advisors**, such as **Betterment** and **Wealthfront**, use algorithms to provide personalized investment advice and portfolio management, making financial planning more accessible to the average investor.

AI is also instrumental in **fraud detection**. Systems like **Darktrace** employ machine learning to identify unusual patterns and potential security threats in real-time, safeguarding financial transactions and personal data from cybercriminals.

**3. AI in Retail: Personalizing the Shopping Experience**

Retailers are leveraging AI to create more personalized shopping experiences. **Amazon's recommendation engine** uses AI to analyze browsing and purchasing behavior, offering product suggestions tailored to individual preferences. Similarly, **chatbots** powered by AI, like those used by **Sephora**, provide instant customer support and personalized product recommendations, enhancing user satisfaction and driving sales.

Moreover, AI is improving inventory management through predictive analytics, helping retailers maintain optimal stock levels and reduce waste by forecasting demand more accurately.

**4. AI in Education: Transforming Learning and Teaching**

In education, AI tools are making learning more interactive and tailored to individual needs. **Adaptive learning platforms**, such as **Knewton** and **DreamBox**, use AI to adjust educational content based on student performance, ensuring that learners receive material suited to their proficiency levels.

AI-powered **virtual tutors** and **learning assistants**, like **Socratic** by Google, provide students with instant help and resources, facilitating a more personalized and engaging learning experience. Additionally, **AI-based grading systems** can handle large volumes of student assessments, freeing educators to focus more on teaching and less on administrative tasks.

**5. AI in Transportation: Driving the Future of Mobility**

The transportation industry is experiencing a revolution thanks to AI. **Autonomous vehicles**, such as those being developed by **Tesla** and **Waymo**, use AI to navigate roads, recognize obstacles, and make driving decisions, promising to enhance safety and reduce traffic congestion.

AI is also optimizing logistics and supply chain management. Tools like **Convoy** employ machine learning to improve route planning and resource allocation, reducing costs and improving efficiency in freight transportation.

**6. AI in Content Creation: Expanding Creative Possibilities**

AI tools are making waves in the creative industry as well. **Generative AI**, such as **OpenAI's GPT-4** and **DALL-E**, can create text, images, and music based on user prompts, opening new avenues for creative expression. Writers use AI to brainstorm ideas and generate content, while artists and designers leverage AI to create unique visual pieces and artworks.

Furthermore, AI-driven tools like **Grammarly** and **Copy.ai** assist with writing and editing, improving content quality and streamlining the creative process.

**Challenges and Considerations**

Despite the impressive advancements, the rise of AI tools also brings challenges. Issues such as data privacy, algorithmic bias, and job displacement are significant concerns that need addressing. Ensuring that AI is used ethically and responsibly is crucial as these tools become increasingly integrated into various aspects of life.

**Conclusion**

AI tools are undoubtedly transforming industries and reshaping our daily lives, offering enhanced efficiency, personalization, and innovation. As technology continues to evolve, the potential applications of AI are boundless. However, it is essential to navigate the accompanying challenges thoughtfully to harness AI's benefits while mitigating its risks. The future of AI promises exciting developments, and staying informed about these changes will be key to leveraging their full potential.

**Ms. SANIKE SREE VARSHA**
**(21R15A0506)**

# An Overview of Deep Learning Algorithms

Deep learning, a subset of machine learning, has transformed many fields through its ability to model and interpret complex data. This article provides a comprehensive overview of some key deep learning algorithms and architectures that have propelled advances in artificial intelligence (AI).

**What is Deep Learning?**

Deep learning is a technique in machine learning where algorithms are structured in layers to create artificial neural networks (ANNs). These networks are designed to learn from data in a hierarchical manner, extracting increasingly abstract features at each layer. Deep learning is particularly effective in processing and understanding unstructured data such as images, text, and audio.

**Key Deep Learning Algorithms:**

## 1. Artificial Neural Networks (ANNs)

At the core of deep learning are artificial neural networks, which are inspired by the human brain's network of neurons. ANNs consist of input, hidden, and output layers. Each layer comprises nodes (neurons) that process input data using weights and biases, which are adjusted during training to minimize error.

- **Feedforward Neural Networks (FNNs)**: The simplest type of ANN where connections between nodes move in one direction—from input to output. They are used for tasks like classification and regression.

**Multilayer Perceptrons (MLPs)**: A type of FNN with one or more hidden layers. MLPs are capable of learning complex patterns and are widely used in various applications.

## 2. Convolutional Neural Networks (CNNs)

CNNs are designed to process structured grid data, such as images. They use convolutional layers to detect patterns and features by applying convolutional filters. Key components include:

- **Convolutional Layers**: These apply filters to the input data, capturing spatial hierarchies.
- **Pooling Layers**: These reduce the dimensionality of feature maps, maintaining essential features while decreasing computational complexity.

**Fully Connected Layers**: These interpret the features extracted by convolutional layers for classification or regression tasks.

CNNs have achieved remarkable success in image recognition, object detection, and video analysis.

## 3. Recurrent Neural Networks (RNNs)

RNNs are designed for sequential data, such as time series or natural language. They maintain a memory of previous inputs through internal states, making them suitable for tasks involving context and sequence.

- **Long Short-Term Memory (LSTM)**: A type of RNN that addresses the vanishing gradient problem, allowing it to learn long-term dependencies more effectively.

**Gated Recurrent Units (GRUs)**: A variation of LSTM with a simpler architecture and fewer parameters, often used in real-time applications.

RNNs and their variants are commonly used in language modeling, speech recognition, and time series forecasting.

### 4. Generative Adversarial Networks (GANs)

GANs consist of two neural networks—a generator and a discriminator—that compete with each other. The generator creates fake data, while the discriminator tries to distinguish between real and fake data. This adversarial process improves the quality of generated data over time.

- **Deep Convolutional GANs (DCGANs)**: Use convolutional layers for both the generator and discriminator, making them effective in generating high-quality images.

**StyleGANs**: Focus on generating high-resolution images with controllable style features.

GANs are widely used for image generation, data augmentation, and creating realistic simulations.

### 5. Transformers

Transformers have revolutionized natural language processing (NLP) by using self-attention mechanisms to handle long-range dependencies and context in sequences. Unlike RNNs, transformers process all elements of the sequence simultaneously.

- **BERT (Bidirectional Encoder Representations from Transformers)**: A transformer model that captures bidirectional context, improving understanding of text.

**GPT (Generative Pre-trained Transformer)**: A series of models designed for text generation, capable of producing coherent and contextually relevant text based on input prompts.

Transformers are the foundation of many state-of-the-art NLP systems, enabling advancements in machine translation, question answering, and text generation.

### 6. Autoencoders

Autoencoders are neural networks used for unsupervised learning. They encode input data into a compressed representation and then decode it back to the original data. Key components include:

- **Encoder**: Maps input data to a lower-dimensional space.

**Decoder**: Reconstructs the data from the compressed representation.

Autoencoders are useful for dimensionality reduction, anomaly detection, and image denoising.

**Conclusion:**

Deep learning algorithms have dramatically advanced the capabilities of AI systems across various domains. From image recognition to natural language processing, these algorithms provide powerful tools for extracting insights and making predictions from complex data. As research continues, innovations in deep learning will likely lead to even more sophisticated models and applications, driving further progress in AI technology.

**Mr. A LAKSHMI JAYANTH**
**(20R11A0501)**

## Simple Ways to Reduce Stress at the Workplace

Relieving stress at the workplace is crucial for maintaining productivity and well-being. Here are some effective techniques tailored specifically for the work environment:

### 1. Time Management and Organization

- **Prioritize Tasks:** Use methods like the Eisenhower Matrix or the ABC method to focus on what's most important.
- **Break Tasks Into Smaller Steps:** Divide larger projects into manageable parts to avoid feeling overwhelmed.

**Use Productivity Tools:** Leverage tools and apps for task management, scheduling, and reminders to stay organized.

### 2. Physical and Mental Breaks

- **Take Regular Breaks:** Implement the Pomodoro Technique or take short breaks every hour to rest and recharge.

**Stretch and Move:** Incorporate stretching or quick exercises to relieve physical tension and improve circulation.

### 3. Ergonomic Workspace

- **Adjust Your Workspace:** Ensure your chair, desk, and computer setup are ergonomically designed to prevent physical strain.

**Create a Comfortable Environment:** Personalize your workspace with items that make you feel relaxed and focused, such as plants or calming images.

### 4. Healthy Work Habits

- **Set Clear Boundaries:** Define your work hours and avoid checking emails or taking work calls outside of these times.

**Manage Your Workload:** Communicate with your manager about realistic deadlines and manageable workloads to prevent burnout.

### 5. Mindfulness and Relaxation Techniques

- **Practice Deep Breathing:** Use techniques like diaphragmatic breathing or the 4-7-8 method to calm your mind during stressful moments.

**Mindfulness Exercises:** Engage in short mindfulness practices, such as focusing on your breath or a brief meditation, to stay centered.

### 6. Workplace Wellness Programs

- **Participate in Wellness Initiatives:** Engage in any available workplace wellness programs, such as stress management workshops or fitness classes.

**Utilize Employee Assistance Programs (EAPs):** Take advantage of counseling services or resources offered through your employer's EAP.

## Simple Ways to Reduce Stress at the Workplace

### 7. Mindset and Attitude

- **Reframe Challenges:** Try to view stressful situations as opportunities for growth rather than insurmountable problems.

**Practice Gratitude:** Focus on positive aspects of your job and accomplishments to build a more positive mindset.

### 8. Time Away

- **Use Vacation Time:** Take regular vacations or staycations to disconnect and recharge.

**Consider Flexible Work Options:** If available, explore flexible work arrangements, such as remote work or adjusted hours, to reduce stress.

### 9. Healthy Lifestyle Choices

- **Stay Hydrated:** Drink plenty of water throughout the day to maintain energy and concentration.

**Eat Nutritious Snacks:** Choose healthy snacks that provide sustained energy, like nuts, fruits, or yogurt.

### 10. Professional Development

- **Develop Skills:** Invest in professional development to enhance your skills and confidence, reducing stress associated with feeling unprepared.

**Set Achievable Goals:** Set realistic career goals and break them into smaller, manageable steps to maintain motivation and reduce stress.

### . Positive Communication

- **Open Dialogue:** Maintain clear and open communication with colleagues and supervisors to address concerns and resolve conflicts.

**Seek Feedback:** Regularly ask for constructive feedback to improve and address any issues proactively.

### 11. Social Support

- **Build a Support Network:** Foster positive relationships with colleagues to create a supportive work environment.

**Share and Vent:** Sometimes talking about your stress with a trusted colleague or mentor can help alleviate it.

**Mr. V. LAXMANA VYAAS**
**(20R11A05B6)**

# Object detection using the YOLO algorithm

Object detection using the YOLO (You Only Look Once) algorithm is a popular and effective method in the field of computer vision. YOLO is known for its speed and accuracy in detecting objects in real-time from images or video feeds.

## What is YOLO?

YOLO stands for "You Only Look Once," and it represents a type of object detection algorithm that processes an entire image in a single pass through the network, unlike traditional methods that use multiple stages. This makes YOLO particularly efficient and fast, suitable for real-time applications.

YOLO, developed by Joseph Redmon et al., frames object detection as a regression problem to spatially separated bounding boxes and associated class probabilities. It looks at the whole image at test time so its predictions are informed by global context in the image.

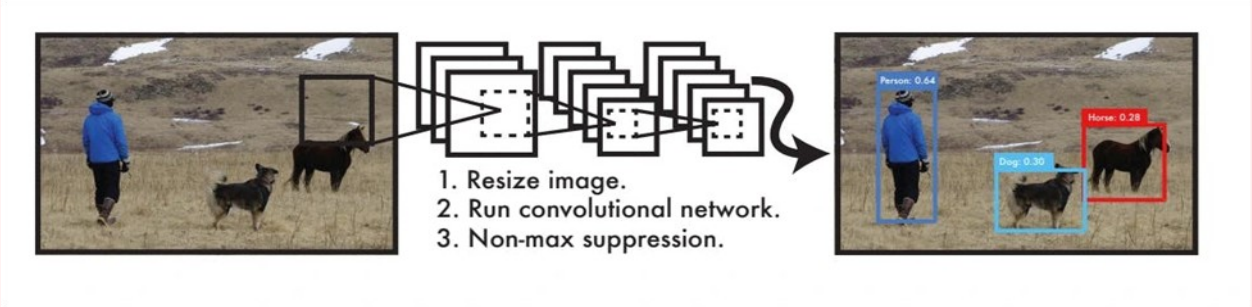
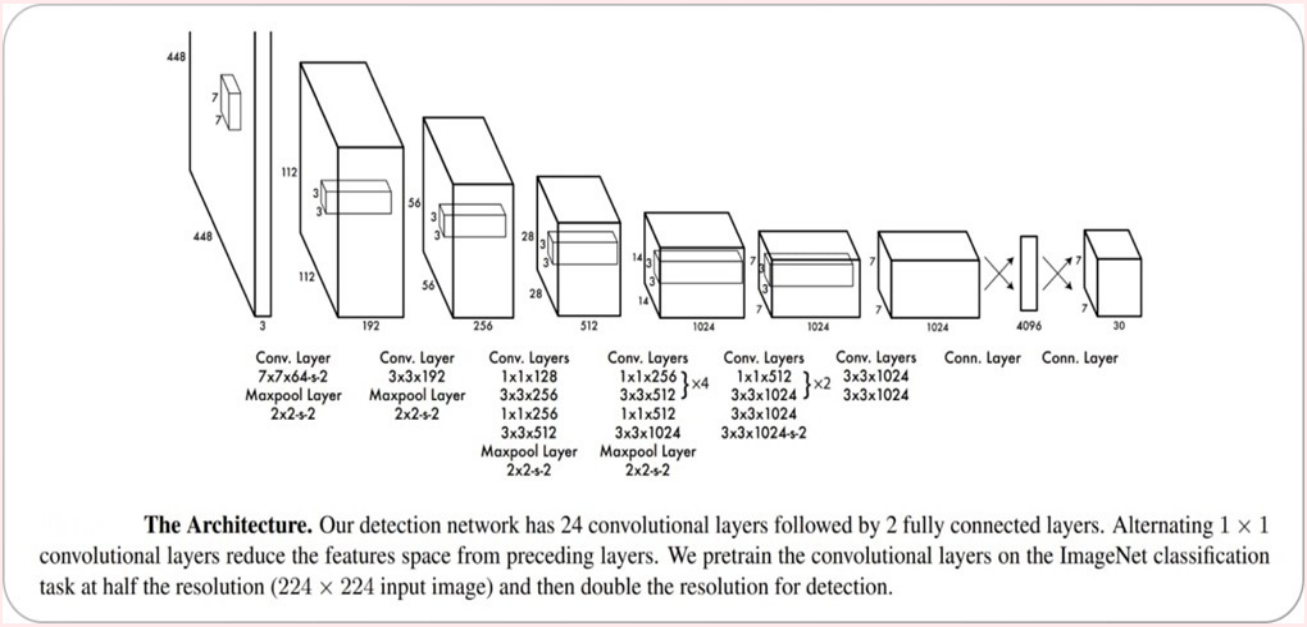



**Fig.a. You Only Look Once: Unified, Real-Time Object Detection**

## YOLO Architecture:

The YOLO algorithm employs a single Convolutional Neural Network (CNN) that divides the image into a grid. Each cell in the grid predicts a certain number of bounding boxes. Along with each bounding box, the cell also predicts a class probability, which indicates the likelihood of a specific object being present in the box.




**The Architecture.** Our detection network has 24 convolutional layers followed by 2 fully connected layers. Alternating $1 \times 1$ convolutional layers reduce the features space from preceding layers. We pretrain the convolutional layers on the ImageNet classification task at half the resolution ($224 \times 224$ input image) and then double the resolution for detection.

**Fig.b. Convolution Layers**

# Object detection using the YOLO algorithm

**Bounding Box Recognition Process:**

The bounding box recognition process in YOLO involves the following steps:

**Grid Creation:** The image is divided into an SxS grid. Each grid cell is responsible for predicting an object if the object's center falls within it.

**Bounding Box Prediction:** Each grid cell predicts B bounding boxes and confidence scores for those boxes. The confidence score reflects how certain the model is that a box contains an object and how accurate it thinks the box is.

**Class Probability Prediction:** Each grid cell also predicts C conditional class probabilities (one per class for the potential objects).

**YOLOv3:**


**Fig. d. Upsampling**

YOLO v3 uses upsampling layers to merge features from previous layers, providing a richer feature set for detection at different scales. This is especially beneficial for detecting smaller objects.

YOLOv3 introduced a new backbone network, Darknet-53, which utilized residual connections. It also made several design changes to improve accuracy while maintaining speed. At 320x320 resolution, YOLOv3 ran in 22 ms at 28.2 mAP, as accurate as SSD but three times faster. It achieved 57.9 mAP@50 in 51 ms on a Titan X, compared to 57.5 mAP@50 in 198 ms by RetinaNet, with similar performance but 3.8x faster.

**Mr. NALLAPATI NIKHIL SAI**
(22R11A0529)

# Technical poem on "Artificial Intelligence"

**In Silicon Dreams**

In the heart of circuits, where electrons dance,
Lies a realm of data, a digital expanse.
Neural nets weave in patterns so grand,
Learning from bytes, from algorithms planned.

Machine minds awaken in silicon beds,
Processing streams where the data threads.
Training on datasets, vast and immense,
Finding correlations, patterns, and sense.

From supervised depths where labels are clear,
To unsupervised realms where clusters appear,
Reinforcement guides through a trial and error,
Crafting responses with precision and care.

Deep learning's layers, complex and deep,
Transform inputs to insights, awake from their sleep.
Convolutional filters in visual domains,
Extract features from pixels, transcending the frames.

Natural language's twists and turns,
Semantic models where meaning burns.
Transformers decode the language flow,
From syntax to sentiment, they learn and grow.

Generative art in the code's embrace,
Creativity blooms in a structured space.
GANs create visions from noise and despair,
Imagination sparked in a digital flare.

Yet amidst this marvel, complexities reside,
Ethics and biases where dark shadows hide.
The quest for fairness in the AI's heart,
To shape a future, both precise and smart.

In silicon dreams where logic meets lore,
AI's frontier continues to explore.
With every model, each algorithm's flight,
We forge ahead in the realm of bytes.

So here's to the circuits and codes that entwine,
Crafting tomorrow from today's design.
In the language of science, where innovation gleams,
We sail through the cosmos of silicon dreams.

by
**Ms. MUSAPETA DEEPIKA**
**(20R11A0539)**

Life and journey of a Computer Science Engineering student

**In the Realm of Code**

In the dim-lit room where the screens softly glow,
A CSE student's journey begins to unfold.
With keyboards that click and mice that glide,
They traverse the realm where algorithms reside.

Morning lectures burst with theories and schemes,
From binary basics to AI's dreams.
The language of code, a syntax divine,
In a sea of variables, they seek the design.

Stacks and queues, arrays and trees,
Data structures dance with the greatest ease.
Debugging at dawn, compiling at night,
They wrestle with logic till problems are right.

Through lines of code where errors are sly,
They chase down bugs as they flutter and fly.
With every compile, with every test,
They strive for perfection, giving their best.

Projects loom large with deadlines so near,
Hackathons spark creativity and cheer.
Collaboration fuels the endless grind,
In a symphony of logic, solutions are mined.

Machine learning whispers secrets untold,
Neural networks weave patterns bold.
From datasets vast to predictions so keen,
They shape the future with every machine.

Yet amidst the stress and the caffeine's embrace,
Friendships are forged in this hectic space.
Late-night coding sessions, laughter and strife,
In the heart of the struggle, they find their life.

Graduation's horizon is just in sight,
A world of opportunities glowing bright.
From lines of code to systems profound,
They're ready to conquer the tech world's ground.

So here's to the students, with passion so fierce,
Who turn ideas to code, and doubts to clear.
In the realm of computers, where they strive and dream,
They build tomorrow's world, one byte at a time.

by
**Mr. DHARAVATH ROUNITH**
**(20R11A05K2)**

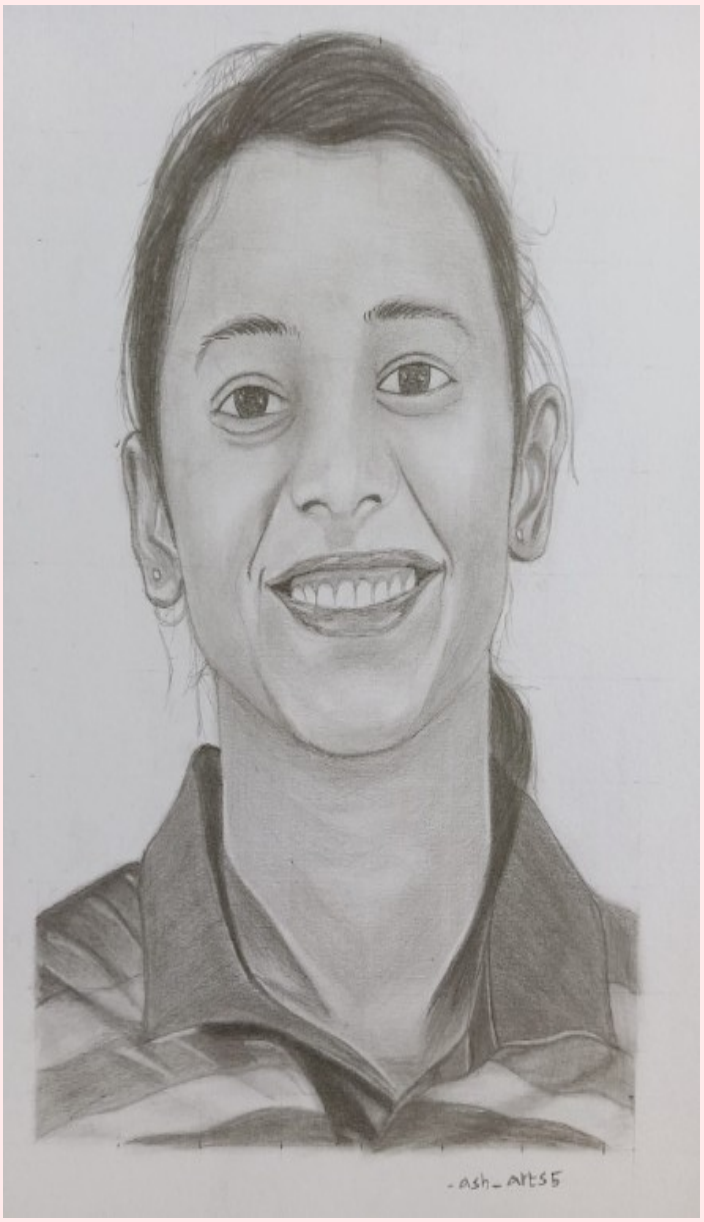
Volume 12, Issue 1

## Student Art


Art by **KUCHULAKANTI SHRUTHI**
**(Roll Number: 21R11A0526)**

Volume 12, Issue 1

# Student ART




**Art by**
**Mr. Gudikati Ashok**
**(Roll Number: 22R15A0508)**

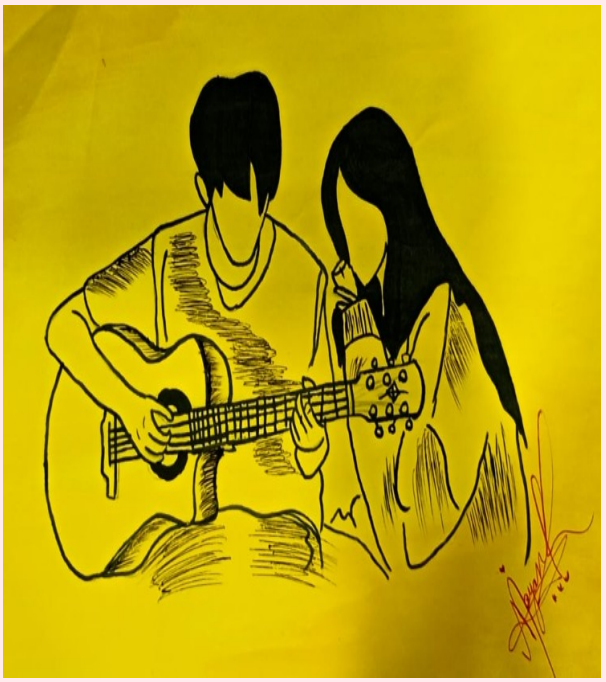
## Student ART


**Art by**
**AVVARU GURU JAYANT**
**(Roll Number: 21R11A0559)**

Volume 12, Issue 1

## Student ART


WOOD CARVING



**Art by**
**AVVARU GURU JAYANT**
**(Roll Number: 21R11A0559)**

## 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 |