

Department of CSE (Data Science)

ANALYTICAL EDGE

SHARPENING MINDS WITH DATA AND DISCOVERY

JULY-2025 to DECEMBER-2025

VOLUME-1, ISSUE-1

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4. **G. Hema Saranya – (22471A4420)**
5. **G. Bala Koteswara Rao – (22471A4421)**

ABOUT DEPARTMENT

NEC Website: <https://www.nrtec.in/>

VISION:

- ❖ To nurture skilled professionals in the Data Science for industry innovation and create meaningful societal impact through advanced analytics, machine learning, and impactful data-driven solutions.

MISSION:

- ❖ To develop skilled data scientists who can effectively solve challenges in data analytics through comprehensive education and practical training in statistical analysis, machine learning, data visualization, and data manipulation.
- ❖ To develop students with strong research capabilities who can revolutionize multiple fields through the application of data science.
- ❖ To develop ethical data science professionals who utilize data for the welfare of society.

PROGRAM SPECIFIC OBJECTIVES (PSOs)

PSO1: Apply Data Science Techniques, statistical analysis, machine learning algorithms, data visualization, and data manipulation effectively to solve complex data problems.

PSO2: Demonstrate proficiency in conducting data collection, preprocessing, analysis, and interpretation, contributing to the advancement of the field.

PSO3: Able to independently carry out research and investigation to solve societal problems.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Graduates be proficient in applying advanced analytics techniques to solve complex data challenges.

PEO2: Graduates contribute to the advancement of the field through the development of innovative methodologies, algorithms, and models.

PEO3: Graduates utilize data science principles to create meaningful societal impact. They will prioritize ethical considerations in data usage and develop solutions that address societal challenges, and benefit individuals and communities.

STUDENT STRENGTH PARTICULARS

- 2022 Batch (Regular) - 58
- 2023 Batch (Lateral Entry) - 1

FACULTY FOCUS

INTERNATIONAL JOURNALS:

- ❖ The Author(s), under exclusive license to Springer Nature Singapore Pvt Ltd. 2025 H. Zen et al. (eds.), Soft Computing and Signal Processing, Lecture Notes in Networks and Systems 1200, https://doi.org/10.1007/978-981-97-9926-8_12

1. **V. V. A. S. Lakshmi, Gujjaramudi Mahesh Babu** - The Evaluation of Data Aggregation and Compression in WSN Routing Networks Using the Best Clustering Methods.
2. **Puttamraju Srinivasa Rao, Danda Sreekanth** - Improved AODV Routing Protocol Development and Analysis for Enhanced Network Performance in MANETs Based on Machine Learning Model.

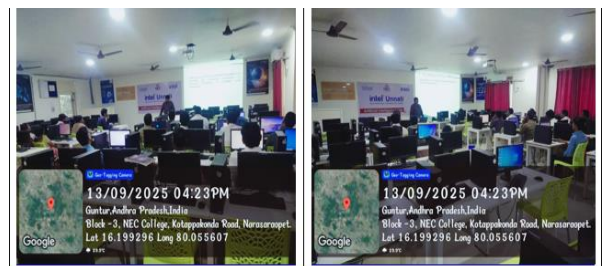
KNOW WHAT SPARKS THE LIGHT IN YOU. THEN USE THAT LIGHT TO ILLUMINATE THE WORLD.

3. **Nalabothu Siva Rama Krishna** - The Augmentation of Social Media and Its Notable Impact on Sentiment Research Review Systems for Public Movie Theaters Using Deep Learning.
4. **Gundala Nageswara Rao** - Prediction of Distinctive Human Behavioral Activity Using PIFP and Big Data Methods.
5. Dr. VVAS Lakshmi & P V Sateesh Kumar for the Paper Titled **Auto Prognosis-M++: Uncertainty-Aware Multimodal Ensemble Learning for Interpretable and Efficient Clinical Diagnosis** presented at the 5th International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2025) Organized by Dept of IT, Hindusthan Institute of Technology, Coimbatore, India on 24-26 November 2025.
6. P V Sateesh Kumar & N. Siva Rama Krishna for the Paper Titled **Heuristic-based Multi-Objective RSU Deployment and Adaptive Repositioning for Secure Internet of Vehicles** presented at the 5th International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2025) Organized by Dept of IT, Hindusthan Institute of Technology, Coimbatore, India on 24-26 November 2025.
7. J. Syam Babu has Presenting a Paper Titled **Smart Tourism Management System: An Enhancement of Traditional Travel Platforms Using Real-Time Technologies** in the 2025 IEEE International Conference on Innovate for Humanitarian Tech Solutions for Global Challenge (ICIH) Acropolis Institute of Technology and Research, Indore 21st – 22nd November 2025.
8. P. Srinivasarao has Presenting a Paper Titled **Simultaneous Localization and Mapping (SLAM) Algorithm Development Using 2-D LiDAR** in the 2025 IEEE International Conference on Innovate for Humanitarian Tech Solutions for Global Challenge (ICIH) Acropolis Institute of Technology and Research, Indore 21st – 22nd November 2025.
9. D. Sreekanth has Presenting a Paper **E-Commerce Transaction Fraud Detection Using Machine Learning Technique** at the Conference organized by the National Institute for Engineering and Research (NIER) held on 1st November 2025 at Trivendrum - India.

10. V.V A S Lakshmi has successfully presented the paper titled **Lifecycle-Wide AI Security Enhancement Using Generative AI: A Unified Framework for Robustness, Privacy and Self-Healing** in the 5th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS 2025) held on 26-28 Nov 2025.

FDPS ATTENDED:

- ❖ Awareness on NBA Accreditation – Resource Person: Dr. P. Hari Krishna Prasad.



- ❖ 3day FDP on Hands-On FDP on Flutter for Android, IOS and Web Apps on 3rd to 5th Nov 2025.



FACULTY ACHIEVEMENT:

❖ Our Department Faculty got an Excellence Certificates.



- ❖ Dr. V.V.A.S. Lakshmi, G.V. Neelmadhavi, G. Mahesh Babu, M. Sai Yaswanth, G. Nageswara Rao, P. Solmon, P. Sateesh Kumar, J. Syam Babu & P. Sardar Khan for the Successful Completion of a **One Week Faculty Development Program on Emerging Trends and Challenges in Cyber Security** Organized by the Department of CSE(AIML) held from 25th August to 30th August 2025 (**KITS Autonomous**)
- ❖ J. Syam Babu participated in **Faculty Development Program** on Cloud Computing Organized by the J B Institute of Engineering & Technology (JBIET), Hyderabad, Telangana in Collaboration with ExcelR Edtech Pvt. Ltd Date: 14th July to 18th July 2025.



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- ❖ G. Mahesh Babu has successfully presented the paper entitled Firewall Configuration Review Tool with Secure Data Transmission at the 6th International Conference on Smart Electronics and Communication (ICOSEC 2025) organised by Kongunadu College of Engineering and Technology, Trichy, India on 24-26, September 2025.
- ❖ G. Mahesh Babu for demonstrating competence in the completion of Fundamentals of Deep Learning on 26th September 2025.



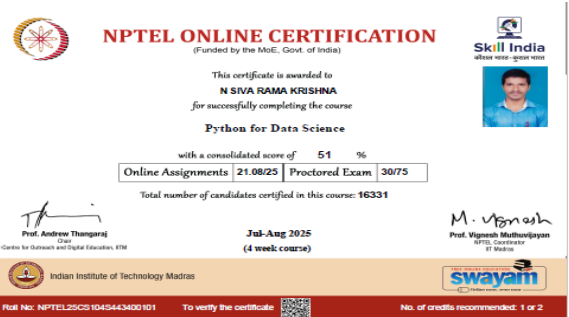
- ❖ Dr. V V A S Lakshmi for successfully completing the course Data Base Management System with a consolidated score of 58% on July–Sep 2025.



- ❖ Dhulipalla Umasankar for successfully completing the course Technical Communication for Engineers with a consolidated score of 79% on July–Aug 2025.



- ❖ N. Siva Rama Krishna for successfully completing the course Python for Data Science with a consolidated score of 51% on July–Aug 2025.



- ❖ D. Sreekanth for successfully completing the course Python for Data Science with a consolidated score of 51% on July–Aug 2025.



- ❖ G. Mahesh Babu & N. Siva Rama Krishna has successfully presented the paper titled Deep Learning-based Plant Leaf Disease Detection at the 7th International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2025) Organised by RVS College of Engineering Technology, Coimbatore, India on 6th to 8th October 2025.



- ❖ Gujjarlamudi Mahesh Babu has presented the paper entitled Predicting Mental Health Conditions from Survey Data at the 2nd Asia Pacific Conference on Innovation in Technology (APCIT-2025) (IEEE), organized by Vidyavardhaka College of Engineering, Mysuru, India, held on 19th –20th, September 2025.

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- Gujjarlamudi Mahesh Babu has successfully presented the paper entitled **Interpretable Deep Learning for Pancreatic Cancer Diagnosis using TabNet and Shapley Addictive Explanations (IEEE)** at the **2nd International Conference on Electronic Circuits and Signaling Technologies ICECST 2025**, organized by Lincoln University College Petaling Jaya, Malaysia on 23rd –25th, October 2025.



- M. Sai Yaswanth, J. Syam Babu has successfully presented the paper titled **Performance Assessment of Feature Ranking Algorithms for Breast Cancer Prediction** at the **9th International Conference on Electronics, Communication and Aerospace Technology ICECA 2025** on 5th to 7th November 2025.



- M. Sai Yaswanth has successfully presented the paper titled **Unresolved Challenges and Future Directions in AI-Based Skin Cancer Detection: A Review of Data Diversity, Model Interpretability, and Clinical Integration** at the **9th International Conference on**

Electronics, Communication and Aerospace Technology ICECA 2025 on 5th to 7th November 2025.



- G. Nageswara Rao & Ch. Padma for the successful completion of a One Week FDP (Hybrid) on **“Innovation & Research Opportunities in Cyber Security”** Organized by the Department of CSE (AIML) held from 27th October 2025 to 1st November 2025.



- N. Siva Rama Krishna has successfully participated & completed AICTE Training and Learning (ATAL) Academy FDP on **Demystifying Transformers: The Brains behind Generative AI** at Vellore Institute of Technology from 25th Aug to 30th Aug 2025.



- P. Solmon, N. Siva Rama Krishna, A. Veemarao, J. Syam Babu & G. V Neelmadhavi for the successful completion of 10 days Online International FDP on **“Transforming Research into Quality Publication: Tools, Techniques & Practices”** from 30th October 2025 to 8th November 2025 Organized by Department of Business Administration, Annamacharya University.

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❖ Veema Rao has successfully completing the course **Software Engineering** with consolidated score of **53%** on July-Oct 2025.(NPTEL & FDP)



❖ Dr. N. Ravi Babu has successfully completing the course **Discrete Mathematics** with consolidated score of **73%** on July-Oct 2025.(NPTEL Elite)



❖ G. Mahesh Babu has successfully completing the course **Operating System Fundamentals** with consolidated score of **47%** on July-Oct 2025.(NPTEL & FDP)



❖ G. Mahesh Babu has successfully completing the course **Deep Learning - IIT Ropar** with consolidated score of **55%** on July-Oct 2025.(NPTEL & FDP)



❖ P. Srinivasa Rao has successfully completing the course **Deep Learning - IIT Ropar** with consolidated score of **60%** on July-Oct 2025.(NPTEL Elite & FDP)



❖ A. Veema Rao, J. Syam Babu & M. Sai Yaswanth has attended A Five-Day National Level Online FDP on “Emerging paradigms in Quantum Computing for Next-Generation Technologies: AI, VLSI, and Secure Communication” organized by KITS Autonomous Guntur from 10th to 14th Nov 2025.

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- ❖ J. Syam Babu for successfully completing the course **Introduction to Internet of Things** with consolidated score of **58%** on July – Oct 2025 (NPTEL & AICTE FDP).



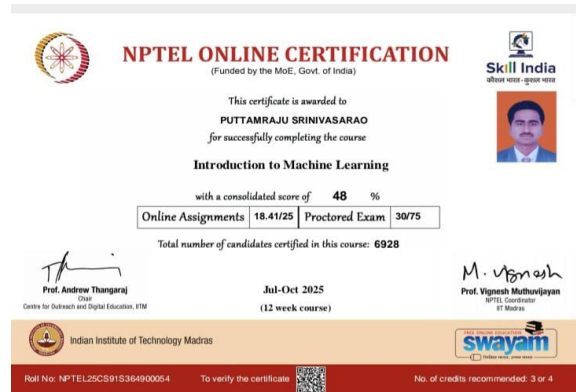
- ❖ N. Siva Rama Krishna for successfully completing the course **Introduction to Internet of Things** with consolidated score of **54%** on July – Oct 2025 (NPTEL).



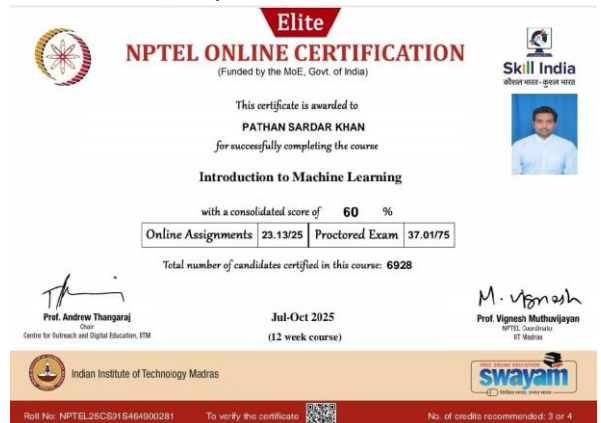
- ❖ K. Mounika for successfully completing the course **Introduction to Internet of Things** with consolidated score of **53%** on July – Oct 2025 (NPTEL).



- ❖ P. Srinivasarao for successfully completing the course **Introduction to Machine Learning** with consolidated score of **48%** on July – Oct 2025 (NPTEL).



- ❖ P. Sardar Khan for successfully completing the course **Introduction to Machine Learning** with consolidated score of **60%** on July – Oct 2025 (NPTEL ELITE).



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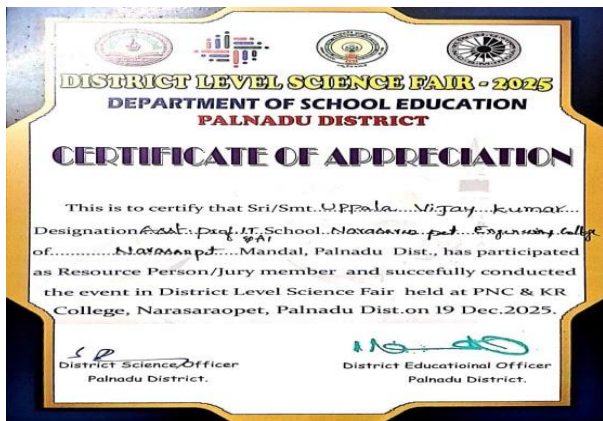
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- ❖ Certificate of Appreciation to P. Srinivasarao for being recognized as NPTEL motivated learner Jul-Dec 2025.



- ❖ Certificate of Appreciation to U. Vijay Kumar has participated as Resource Person / Jury member and successfully conducted the event in District Level Science Fair held at PNC & KR College, NRT on 19th Dec 2025.



WEBINARS, WORKSHOPS / TRAININGS PROGRAMS / OTHERS CONDUCTED

- ❖ III Year I Semester students are hereby informed that TechnoElite, ISTE and our department is going to organize a one-week workshop on 'Data Security Tools and Techniques' during 07th - 12th July, 2025 in collaboration with Supraja Technologies.





❖ All the 2024 Batch II Year I Semester students are hereby informed that TechnoElite, ISTE and our department is going to organize a one-week workshop on ‘AWS (Amazon Web Services) Cloud Computing’ during 07th – 12th July, 2025 in collaboration with Viksha Tech Solutions (OPC) Private Limited.



❖ Savantis Solutions On Campus (Physical) Drive – 18th July, 2025 for AIML, CS, DS IV Year Students.



❖ All the III Year I Semester students are hereby informed that our department and TechnoElite Club, is going to organize a one-day seminar on “Prompt Engineering” on August 6, 2025.



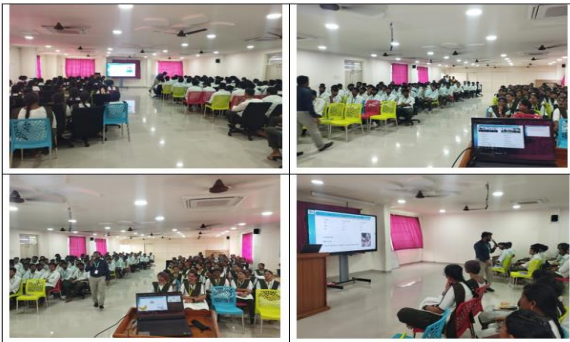
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- ❖ All the III B.Tech. Students are hereby informed that our department and Technoelite Club, is going to organize a one-day seminar on **“Cloud Computing Gateway to a High-Demand Tech Career”** on August 11, 2025.



- ❖ All the IV B.Tech. Students are hereby informed that our department and Technoelite Club, is going to organize a one-day seminar on **“Power Automate”** on August 12, 2025.



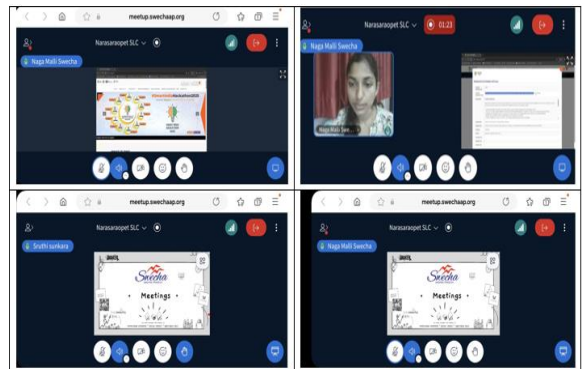
- ❖ IV Year I Semester DS Students CRC was constituted for the academic year 2025-26 on 08-09-2025.



- ❖ All II & III year students are hereby informed that our department and technoelite club are going to organize an exciting **MCQ Quiz Competition on the occasion of Engineers’ Day.**



- ❖ All II, III, and IV year students registered for SIH-2025 are hereby informed that the TechnoElite Club, in association with Swecha, is organizing an **Online Orientation on Smart India Hackathon** on 13-09-2025.



- ❖ All the students of II Year are hereby informed that TechnoElite Club is going to organize a session on **Peer Learning on “Threat Hunting: Techniques & Practices in Cyber Security”** will be conducted as per the details below:
Date: 13-9-2025 (II Year DS).



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- ❖ IV Year AIML, CS, DS Eligible Students **BEING ZERO** Physical ON Campus Drive – 2026 Batch on 16th Sep 2025.



- ❖ IV Year AIML, CS, DS Eligible Students **UTS (Unistring Tech Solutions)** Physical ON Campus Drive – 2026 Batch on 24th Sep 2025.



- ❖ III B.Tech I Semester CSE (DS) Students **CRC** was constituted for the academic year 2025-26 on 20-09-2025.



- ❖ II Year I Semester CSE (DS) **Class Review Committee (CRC)** meeting in HoD room on 14-10-2025.



- ❖ Workshop & Hackathon for 25 Batch Ist Year B.Tech. Students has **Join the Excitement at Code Challenge 2025** on 22nd November 2025.



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- ❖ All the III Year I Semester CSE (DS) students are hereby informed that TechnoElite, ISTE and our department is going to organize a one-week workshop on ‘Next-Gen BI: Data Insights Using Power BI & Tableau’ during 24th – 29th November, 2025.



- ❖ All the III B.Tech. Students are hereby informed that our department and Technoelite Club, is going to organize a one day seminar on "Innovating with Data: Awareness Program on Data Science and AI/ML Technologies" on December 03, 2025.

KNOW WHAT SPARKS THE LIGHT IN YOU. THEN USE THAT LIGHT TO ILLUMINATE THE WORLD.



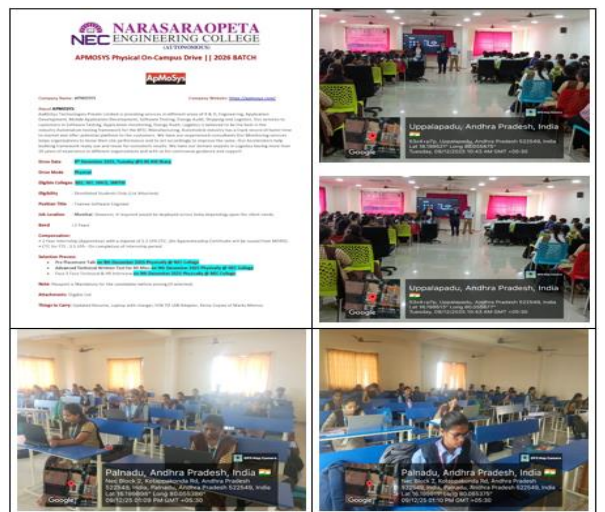
❖ NEC opens its new “AI Center” of Excellence with WeXL. The Grand inauguration of the “Center of Excellence in AI” was held on 9th December. WeXL is an innovation and learning hub that promotes experiential learning and industry exposure. It helps students develop practical skills through hands-on projects, technology and real-world problem solving.



❖ Our department organised **Parent – Teacher Meeting** on 13th December 2025. The meeting aims to discuss students’ academic progress and college events, extra-curricular activities, and workshops.



❖ IV Year AIML, CS, DS Eligible Students **APMOSYS Physical on Campus Drive – 2026 Batch** on 09th Dec 2025.



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- ❖ IV Year AIML, CS, DS Eligible Students **Silver sky Technology Physical On Campus Drive – 2026 Batch on 18th Dec 2025.**



STUDENT FOCUS

NPTEL Course Details

- ❖ IV Year AIML, CS, DS Eligible Students **Technoparin Soft Drive Physical On Campus Drive – 2026 Batch on 20th Dec 2025.**



Student Details	Title	Course Duration	No. of Students Completed
24 Batch II-I	Python for Data Science	12 weeks Program	22

EXTRA CIRRCULAR ACTIVITIES

STUDENT ACHIEVEMENTS:-

- ❖ All the II B.Tech. Students are hereby informed that our department and Technolite Club, is going to organize a one day seminar on "**6-Day Hands-On Workshop on Python, NumPy & Pandas with EDA & Projects (Fynity Innovations)**" on 15th to 19th December 2025.





❖ **IV-I CSE(Data Science) students** were the winners of the **Smart India Hackathon (SIH) 2025 Grand Finale** held at **KKR & KSR Institute of Technology and Sciences, Guntur**. The winning teams solved the problem of identifying mudras in Bharatiya natya forms and received certificates and awards on stage.





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STUDENT'S VOICE:

As a Fourth year student. I would like to share my experience in Narasaraopeta Engineering College. Till now I had completed two semesters & participated so many competitions in & out of the campus, to improve my skills.

Our department faculty so supportive & encourage me to participate in various programs like Technical Quiz, paper Presentations & Cultural activities to eliminate stage fear. NEC College provides Pradhan Mantri Yuva Yojana Programs for students to implement their ideas as an entrepreneurs.



22471A4432

M.Ch. Dedeepya

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