

Department of CSE (Data Science)

ANALYTICAL EDGE

SHARPENING MINDS WITH DATA AND DISCOVERY

JANUARY-2025 to JUNE-2025

VOLUME-1, ISSUE-1

EDITORIAL BOARD

CHIEF EDITOR

DR.V.V.A.S.LAKSHMI, PROFESSOR & HOD

EDITOR

P. MALLIKA, ASST.PROFESSOR

STUDENT COORDINATORS:

1. **A. Swathi – (22471A4402)**
2. **B. Prasanth- (22471A4407)**
3. **D. Mounika – (22471A4417)**
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) - 2

FACULTY FOCUS

INTERNATIONAL JOURNALS:

- ❖ Dr.V.V.A.S.Lakshmi, Dr. R. Satya, D. Murali Krishna Reddy, “An energy efficient master auditor node with trust based secure routing in wireless sensor networks”, International Journal of Safety and Security Engineering, Vol. 13, No. 6, December, 2023, pp. 1099-1108. Journal homepage: <http://iieta.org/journals/ijssse>.

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FDPS ATTENDED:

FACULTY ACHIEVEMENT:

- ❖ G. Jeevana Manikata for successfully completing the course **Programming Fundamentals using Python - Part I** on December 13, 2024.
- ❖ G. Jeevana Manikata for successfully completing the course **Programming Fundamentals using Python - Part II** on December 19, 2024.
- ❖ G.V.Neelimadhavi for successfully completing the course **Programming Fundamentals using Python - Part 1** on December 14, 2024.
- ❖ P. Mallika Assistant Professor, NEC, has attended the Faculty Development Programme on “**AI Tools and Techniques for Research**” organized by the Department of Business Administration & IQAC, Andhra Loyola College, from 9th to 13th December, 2024.
- ❖ P. Mallika & J. Syam Babu has successfully completed the 5-day Faculty Development Program on **Building Web Development Solutions with Cloud Computing under the Next Gen Employability Program** from 09-12-2024 to 13-12-2024.
- ❖ Dr. V.V.A.S.Lakshmi, P. SrinivasaRao, M. Sai Yaswanth, P.V.Sateesh Kumar, G. Mahesh Babu and G. Jeevana Manikanta Assistant Professor of NEC has successfully participated & completed **AICTE Training and Learning (ATAL) Academy Faculty Development Program on Revolutionizing Learning Hands on with Generative AI AND LLMS** at SVR Engineering College from 09/12/2024 to 14/12/2024.
- ❖ P. SrinivasaRao Assistant Professor of NEC has successfully participated & completed **AICTE Training And Learning (ATAL) Academy Faculty Development Program on Cutting-Edge Insights into Artificial Intelligence and Its Applications** at EASWARI ENGINEERING COLLEGE from 16/12/2024 to 21/12/2024.
- ❖ G.V.Neeli Madhavi, J. Syam Babu, P. Mallika, M. Revathi & K. Mounika has Participated in Faculty Development Program on **AI Applications in Banking and Healthcare Industry** organized by K.J. Somaiya Institute of Technology Sion, Mumbai - Maharashtra KLE Technological University in Collaboration with ExcelR Edtech Pvt. Ltd. from 12th Dec to 18th Dec 2024.
- ❖ K. Mounika for successfully completing the course Design Thinking on 25th Jan 2025.
- ❖ Mr. Jonnalagadda Syambabu, Assistant Professor of Narasaraopeta Engineering College has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on AWS Cloud Computing - Tools And Services At Aditya College Of Engineering from 19/01/2025 to 24/01/2025.
- ❖ M. Revathi has participated in FDP on AI Applications in Banking and Healthcare Industry organized by KLE Technological University in Collaboration with ExcelR Edtech Pvt. Ltd. Date: 12th Dec to 18th Dec 2024.
- ❖ AICTE Training and Learning (ATAL) Academy certified that Mr. P Venkata Sateesh Kumar, Faculty members of the AICTE approved institutions of Narasaraopeta Engineering College has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on AWS Cloud Computing - Tools And Services At Aditya College Of Engineering From 19/01/2025 To 24/01/2025.
- ❖ AICTE Training and Learning (ATAL) Academy certified that Mr. Modadugu Sai Yaswanth & Mr. Ganjinaboina Jeevana Manikanta Assistant Professor of Narasaraopeta Engineering College(Autonomous) has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Advancements in Telehealth Industry Using IoT at Koneru Lakshmaiah Education Foundation Deemed To B University Off Campus Aziznagar Hyderabad from 20/01/2025 to 25/01/2025.
- ❖ Dr. V.V.A.S.Lakshmi has presented the Research Paper Titled **Rainfall Prediction Using Machine Learning** at the 2nd International Conference on recent trends in Microelectronics, Automation, Computing and Communication Systems Hosted by has presented the Research Paper Titled Circuits and Computing Branches of VNR Vignana Jyothi Institute of Engineering &Technology in association with IEEE Hyderabad Section on 19th Dec to 21 Dec, 2024.
- ❖ A. Veemaroo Faculty member of the AICTE Approved Institutions of NEC has successfully participated &

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- completed AICTE Training and learning (ATAL) Academy FDP on **Empowering Healthcare with AI: Advances, Applications and Future Directions** at Rajyalakshmi Institute of Technology from 27th Jan to 1st Feb 2025.
- ❖ 3. A. Veema Rao, P.V.Sateesh Kumar & J. Syam Babu has successfully completed the 5-day Faculty Development Program on **Building Web Development Solutions with Cloud Computing** under the Next Gen Employability Program from 27th Jan to 31st Jan 2025.
 - ❖ 4. J. Syambabu, Y. Mary Rani, G.V.Neelimadhavi, P. Mallika, G. Mahesh Babu, N. Siva Rama Krishna, M. Revathi & K. Mounika has Participated in FDP on **Gen AI & Chat GPT Application in the Industry** Organized by the Department of MBA & Research Centre, SJC Institute of Technology in Collaboration with ExcelR Edtech Pvt. Ltd. Date: 27th Jan to 31st Jan 2025.
 - ❖ G. Nageswara Rao, J. Syam Babu Faculty members of the AICTE approved institutions of Narasaraopet Engineering College has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Empowering Educators: Advancements in Artificial Intelligence and Its Applications in Computer Science at SRI MITTAPALLI COLLEGE OF ENGINEERING from 10/02/2025 to 15/02/2025.
 - ❖ M. Sai Yaswanth has successfully participated in the National Conference organized by Tech Mindsparc Innovations (Approved by AICTE) on 16th Feb 2025.
 - ❖ G. Nageswara Rao Faculty members of the AICTE approved institutions of Narasaraopet Engineering College has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Empowering Educators: Advancements in Artificial Intelligence and Its Applications in Computer Science at National Institute of Technology Nagaland from 17/02/2025 to 22/02/2025.
 - ❖ P. Mallika, G.V.Neelimadhavi, K. Mounika & Ch. Padma has Participated in Faculty Development Program on **Cyber Security** Organized by the Department of MBA & Research Centre, Sathagiri NPS University, Bangalore in Collaboration with ExcelR Edtech Pvt. Ltd. Date: 14th Feb to 20th Feb 2025.
 - ❖ J. Syam Babu & Ch. Padma has Participated in Faculty Development Program on **Blockchain & Web3** Organized by the Department of CSE & CSE (Data Science), Sri Siddhartha Institute of Technology, SSAHE, Karnataka in Collaboration with ExcelR Edtech Pvt. Ltd. Date: 10th March to 17th March 2025.
 - ❖ Dr. V.V.A.S Lakshmi Prof, Dept of CSE-AIML,CS,DS (NEC) for completing the 6-day FDP on **“Revolutionizing Education with Generative AI: Teaching and Learning Strategies”** held from 10th-15th, March 2025 organized by the Departments of CSE, IT, CSE(AI), CSE(AIML), CSE(DS), CSE(CS), MCA & ECE at NEC in Collaborating with Blackbucks Group.
 - ❖ G. Mahesh Babu, P. Srinivasarao, P.V.Sateesh Kumar, G. Nageswara Rao, G. Jeevana Manikata, D. Sreekanth, J. Syam Babu, N. Siva Rama Krishna, P. Mallika, M. Revathi, G.V.Neeli Madhavi, A. Veema Rao, M. Sai Yaswanth, S. Mariya Dasu & Ch. Padma Ass.Prof, Dept of CSE-AIML,CS,DS (NEC) for completing the 6-day FDP on **“Revolutionizing Education with Generative AI: Teaching and Learning Strategies”** held from 10th-15th, March 2025 organized by the Departments of CSE, IT, CSE(AI), CSE(AIML), CSE(DS), CSE(CS), MCA & ECE at NEC in Collaborating with Blackbucks Group.
 - ❖ Inaugural Session at JNTUK for the Awareness Program on **“Quantum Science and Technology”** on 26-04-2025 & 27-04-2025.
 - ❖ Dr. V.V.A.S. Lakshmi from NEC for Presenting Paper on **Smart Healthcare: AI-Based Virtual Health Assistant and Medicine Reminder** at 1st International Conference CRAES-2K25 held on 22nd – 23rd April 2025 – Bharati Vidyapeeth’s college of Engineering, Lavale, Pune.
 - ❖ N. Siva Rama Krishna from NEC for **Detecting Insider Threats with an Enhanced Test Time Training Approach** at 1st International Conference CRAES-2K25 held on 22nd – 23rd April 2025 – Bharati Vidyapeeth’s college of Engineering, Lavale, Pune.
 - ❖ D. Uma Sankar from NEC for Presenting Paper on **Cloud Based Spam Identification Through Intelligent Text Filtering** at 1st International Conference CRAES-2K25 held on 22nd – 23rd April 2025 – Bharati Vidyapeeth’s college of Engineering, Lavale, Pune.

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- ❖ M. Sai Yaswanth from NEC for Presenting Paper on **Obesosense: A Smart Health Platform Integrating Machine Learning And IOT for Overweight and Obesity Management** at 1st International Conference CRAES-2K25 held on 22nd – 23rd April 2025 – Bharati Vidyapeeth's college of Engineering, Lavale, Pune.
- ❖ J. Syam Babu from NEC for Presenting Paper on **AI-Based Models for the Early Prediction of Persistent Health Conditions Using Health Records** at 1st International Conference CRAES-2K25 held on 22nd – 23rd April 2025 – Bharati Vidyapeeth's college of Engineering, Lavale, Pune.
- ❖ M. Revathi from NEC for Presenting Paper on **AI-driven approaches to improve cybersecurity in financial transactions** at 1st International Conference CRAES-2K25 held on 22nd – 23rd April 2025 – Bharati Vidyapeeth's college of Engineering, Lavale, Pune.
- ❖ G. Mahesh Babu from NEC for Presenting Paper on **Intensifying weather forecasting through deep learnin in machine learning An overarching review of methods demands and future directions** at 1st International Conference CRAES-2K25 held on 22nd – 23rd April 2025 – Bharati Vidyapeeth's college of Engineering, Lavale, Pune.
- ❖ G. Jeevana Manikanta from NEC for Presenting Paper on **Machine Learning -Based Network Vulnerability Analysis of Industrial Internet of Things** at 1st International Conference CRAES-2K25 held on 22nd – 23rd April 2025 – Bharati Vidyapeeth's college of Engineering, Lavale, Pune.
- ❖ P.V. Sateesh Kumar from NEC for Presenting Paper on **ML for Forecasting Climate Change Impacts on Biodiversity** at 1st International Conference CRAES-2K25 held on 22nd – 23rd April 2025 – Bharati Vidyapeeth's college of Engineering, Lavale, Pune.
- ❖ D. Sreekanth from NEC for Presenting Paper on **Machine Learning for Improving Water Quality Monitoring and Management** at 1st International Conference CRAES-2K25 held on 22nd – 23rd April 2025 – Bharati Vidyapeeth's college of Engineering, Lavale, Pune.
- ❖ P. Mallika from NEC for Presenting Paper on **A Comprehensive study of Deep learning techniques in Autonomous Obstacle detection systems** at 1st

International Conference CRAES-2K25 held on 22nd – 23rd April 2025 – Bharati Vidyapeeth's college of Engineering, Lavale, Pune.

- ❖ A. Veema Rao from NEC for Presenting Paper on **Artificial Intelligence for reinventing Public Transportation (PT)** at 1st International Conference CRAES-2K25 held on 22nd – 23rd April 2025 – Bharati Vidyapeeth's college of Engineering, Lavale, Pune.



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WEBINARS, WORKSHOPS / TRAININGS PROGRAMS / OTHERS CONDUCTED

- ❖ III DS students are hereby informed that TechnoElite, ISTE and our department is going to organize a one-week workshop on 'UI-UX Design' during 16th – 21st December, 2024 in collaboration with Alice Soft.

DEPARTMENT OF CSE (DATA SCIENCE)
ONE WEEK WORKSHOP ON "UI-UX DESIGN"



- ❖ All the II Year II Semester students are hereby informed that our TechnoElite Student Club is going to organize a Seminar on "GIT HUB," on 01-02-2025.

[A SEMINAR ON "GIT HUB"](#)



- ❖ III Year II Semester CSE (DS) Class Review Committee (CRC) was constituted on 28-01-2025.

[CRC MEETING FOR THE DEPARTMENT OF CSE \(DATA SCIENCE\)](#)



- ❖ G Shanmukha, a student of CSE (Data Science) 3rd year at Narasaraopeta Engineering College (Autonomous), Yellamanda, Narasaraopet, Palnadu (Dist), Andhra Pradesh-522601, is currently studying in our institute. We hereby give permission to him and his team (T Naga Kalyan) to participate in the IDE Bootcamp Edition 2 Phase II, scheduled to be held from 17th February to 21st February 2025.

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- ❖ M. Nava Durga, a student of CSE (Data Science), III Year at Narasaraopeta Engineering College (Autonomous), Yellamanda, Narasaraopet, Palnadu (Dist), Andhra Pradesh- 522601 is currently studying in our institute. We hereby give permission to her and her team M. Ch. Dedeepya (III DS) & R. Gopinath Reddy (II CSE (AIML)-A) to participate in the IDE Bootcamp Edition 2 Phase II, scheduled to be held from 17th February to 21st February 2025.



- ❖ All the III Year II Semester students are hereby informed that TechnoElite and our department is going to organize a two day workshop on ‘Generative AI Bootcamp’ during 6th – 7th March 2025 in collaboration with SRM University, A.P., and Resource Person: Dr. Satya Krishna Nunna, Professor, Department of CSE, SRM University, A.P.

GENERATIVE AI BOOTCAMP



- ❖ All the II Year Students are hereby informed that our department and IIC are going to organize a one-day Seminar Program on “Entrepreneurship and Startups” 29th March, 2025.

II-II DEPARTMENT OF CSE (AIML, CS, DS), AIML

ONE DAY SEMINAR PROGRAM ON "ENTREPRENEURSHIP AND STARTUPS"



- ❖ II Year II Sem CSE (DS) Class Review Committee (CRC) was conducted on 05-04-2025.

DEPARTMENT OF CSE (DATA SCIENCE)



- ❖ II-II CSE (DS) 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 15th – 21st April, 2025 in collaboration with Viksha Tech Solutions (OPC) Pvt. Ltd.

II-II DEPARTMENT OF CSE (AIML)-B & CSE (DS)

ONE WEEK WORKSHOP ON "AWS CLOUD COMPUTING"



- ❖ All the students of II B.Tech. CSE (AIML), CSE (CS), CSE (DS) & AIML that we are going to conduct **Parent's Meet** on 12-04-2025.

Parent Teacher Meeting held on 12-04-2025



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- ❖ All the II Year II Semester students are hereby informed that our department and TechnoElite Club, is going to hoist a guest lecture on **"Impact of Microsoft 365 on Daily Job Life"** April 12th, 2025.

II-II DEPARTMENT OF CSE (AIML, CS, DS), AIML

A GUEST LECTURE ON "IMPACT OF MICROSOFT 365 ON DAILY JOB LIFE"



II-II DEPARTMENT OF CSE (AIML, CS, DS), AIML

A GUEST LECTURE ON "TRANSITION FROM COMMUNITY SERVICE TO ENTREPRENEURSHIP"



- ❖ All the II Year CSE (AIML), CSE (CS), CSE (DS), AIML students are hereby informed that our department and TechnoElite Club, is going to conduct a Hack-a-thon on **"High Availability, Low Cost: AWS App Challenge Hackathon"** on April 22nd, 2025.

- ❖ All the II Year Students are hereby informed that our department and TechnoElite Club, is going to hoist a guest lecture on **"Transition from Community Service to Entrepreneurship"** April 17th, 2025.

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II-II DEPARTMENT OF CSE (AIML), CSE (CS), CSE (DS), AIML
A HACK-A-THON ON "AWS APP CHALLENGE HACKATHON"

STUDENT FOCUS

NPTEL Course Details



Student Details	Title	Course Duration	No. of Students Completed
II-II	The Joy of Computing Python	12 weeks Program	30
III-I	Introduction To Internet Of Things	12 weeks Program	14

EXTRA CIRRCULAR ACTIVITIES

STUDENT ACHIEVEMENTS:-



SANKRANTHI SAMBARALU

- ❖ On the occasion of Sankranti Sambaralu the following competitions will be conducted for students on 0701-2025.
 1. Painting
 2. Rangoli
 3. 3D Art Rangoli
 4. Traditional Dress competitions for Girls
 5. Bhogi Mantalu
 6. Pongal Photos



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- ❖ The college is celebrating 76th Republic Day on 26th Jan 2025 in our college.



JUBILATION CELEBRATIONS-2K25

- ❖ Jubilation Celebrations & a National Level Student Tech Fest in our collage.



COMPILE CLASH



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DATA VISIONARY CHALLENGE



STAFF CRICKET RUNNERS



STUDENT'S VOICE:

As a third 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.



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M.Ch. Dedeepya

❖ Womens Day Celebrating in our college on 08-03-2025.

WOMENS DAY



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