NALLA NARASIMHA REDDY
Education Society's Group of Institutions - Integrated Campus
(UGC AUTONOMOUS INSTITUTION)

Department of Computer Science & Engineering (Data Science)

DATA SPECTRUM

Bi-Monthly News Letter

(November – December)

2025-26

List of contents

Editorial Board

Name	Designation	Role	Department
Mrs. V. Indrani	Assoc. Professor	Chief Editor	CSD
Mrs. S. Sandya Rani	Asst. Professor	Editor	CSD
Ms. P. Rajeshwari	Student	Coordinator	II CSD
Ms. P. Akshitha	Student	Coordinator	II CSD
Ms. V. Khushi	Student	Coordinator	II CSD
Mr. V. Hemanth	Student	Coordinator	II CSD
Mr. S. Mrudul Kumar	Student	Coordinator	II CSD

VISION & MISSION OF THE INSTITUTE

Vision

To be a premier institution ensuring globally competent and ethically strong professionals.

Mission

1. To provide higher education by refining the traditional methods of teaching to make globally competent professionals.

2. To impart quality education by providing the state-of-the-art infrastructure and innovative research facilities.

3. To practice and promote high standards of professional ethics, transparency, and accountability.

VISION & MISSION OF THE DEPARTMENT

Vision

To emerge as a centre of excellence in Data Science for high quality education and research by nurturing professionals who can transform data into actionable knowledge for innovation and societal advancement.

Mission

1. To deliver high-quality education in data analytics, machine learning, and datadriven technologies through effective, student-centric and hands-on teaching– learning methodologies.

2. To inculcate innovation, research, and experiential learning among students by training them on advanced data science tools and emerging technologies.

3. To develop competent, ethical, and industry-ready data science professionals by forging strong industry collaboration, encouraging students to take up internships in the industry, and give real-time project exposure.

ABOUT THE DEPARTMENT

The Department of Data Science was established in the year 2021 with an initial intake of 60 students, which was later increased to 120 students in 2023 due to the growing demand in the field. Since its inception, the department has been progressing in strength, infrastructure, and academic excellence. The blooming department is headed by Mrs. V. Indrani.

The Department offers a four-year course of Bachelor's Degree (B. Tech) in Computer Science and Engineering (Data Science) with the aim of equipping students with skills in data analytics, machine learning, artificial intelligence, and big data technologies. The Department strives for continuous improvement in teaching and learning methodologies.

The Department is known for its highly qualified faculty having expertise across domains like Artificial Intelligence, Machine Learning, Data Mining, Statistics, and Cloud Computing. Students are trained to handle real-world data challenges, ensuring they become industry-ready professionals. Students actively participate in co-curricular and extra-curricular activities, technical symposiums, workshops, and hackathons.

The teaching staff members are dedicated and determined to learn new things and never hesitate to give their best at all times. With state-of-the-art infrastructure, the Department has dedicated laboratories equipped with high-end computing systems and the latest software tools recommended by AICTE and industry standards. Students extensively use Python, R, TensorFlow, Hadoop, and other open-source technologies.

The main motto of the Department is to bridge the gap between industry and institution and produce industry required tailor-made engineers. The department maintains professional associations with reputed societies such as IEEE, ACM, and ISTE.

SALIENT FEATURES:

Intake

The growth of the Department is taking strides in strengths and facilities every year.

➢ The Department offers a four-year course of Bachelor's Degree (B.Tech) in Computer Science and Engineering (Data Science) with an intake of 120 seats (initially 60 seats from 2021; enhanced to 120 from 2023).

Accreditations

➢ The programme is approved by AICTE and affiliated to Jawaharlal Nehru Technological University Hyderabad (JNTUH). The Institution is a UGC Autonomous Institution, accredited by NAAC with A+ Grade.

Infrastructure

Department tailors industry required computer professionals to bridge the technological gap between Academia and Industry. It instigates the latest innovations in the new era of data science and the faculty are enthusiastically involved in imparting programming roots of various technologies.

With state-of-the-art infrastructure, the Department has dedicated Data Science laboratories equipped with high-end computing systems and software recommended by JNTUH and AICTE. Computing facilities include multiple computer centres for Web Technologies & Linux Programming, IT Workshop & Software Engineering, Computer Networks & Cryptography, Research and Development, OOP through Java & DBMS, Data Structures & Data Warehousing and Mining, and Advanced Algorithms & Internet Technologies. All systems are connected via LAN.

Students extensively use Python, R, TensorFlow, Hadoop, and other open-source technologies for analytics and project work.

Faculty

The teaching staff members are dedicated and determined to learn new Technologies, update their subject knowledge, and to give their best all the time. The department contains faculty members including Professors, Associate Professors, and Assistant Professors. In addition to teaching faculty, we have non-teaching staff and system administrators.

The department is headed by Mrs. V. Indrani, Associate Professor & HOD – Data Science, with over 19 years of professional experience specializing in Cloud Computing, Machine Learning, and Network Security. Senior faculty includes Dr. N. Ravi Shankar, Professor, with 35 years of experience and multiple patents and publications.

The department maintains active association with professional societies like IEEE, ACM, ISTE, etc. Faculty members actively pursue FDPs, NPTEL certifications, research publications, patents, and mentorship of student projects and hackathons.

FACULTY ACHIEVEMENTS

Journals & Conferences

➢ Mrs. Rajani Bandaru presented conference paper on "BKA: A Nature inspired approach for intelligent task scheduling in cloud environment" at IEEE 2025 international conference on Nexgen Networks and cybernetics (IC2NC) with ISBN no:979-8-3315-9484-8, on 01-03rd December 2025.

Faulty development programs

➢MRS. Revathi & CH. Srivalli developed the "Generative AI" organized by EICT Academy-IIT Kanpur on 15th -26th December 2025.

➢Mrs. Gandu Sri Ramya developed "Emerging Trends and challenges in cyber security" organised by GURU NANAK INSTITUTE OF TECHNOLOGY on 10th to 15th November 2025.

➢Mr. Penta Srinivas developed the "AI-Driven lot for smart and sustainable system" organised by Motilal Nehru National Institute of Technology Allahabad, on 01-12-2025 to 06-12-2025.

➢Mrs. M. Pooja developed "cyber security Bootcamp: safe guarding systems" organised by AICTE Training and Learning (ATAL) Academy on 10th to 15th November 2025.

➢Mrs. T. Spoorthi Reddy developed the "Emerging trends and challenges in cyber security" organised by GURU NANAK INSTITUTE OF TECHNOLOGY , Telangana, on 10th to 15th November 2025.

DEPARTMENT ACTIVITIES

1.WORKSHOPS – Artificial Intelligence Fundamentals

Title: AI Certification through IBM Skill build Workshop by Magic Bus Indian Foundation

Date and Duration: 5-Day workshop from 28th Oct to 1stNov 2025

Venue: MBA Seminar Hall

Introduction:

A three-day workshop on Artificial Intelligence (AI), Machine Learning (ML), and Cyber security was successfully conducted by IBM Skill Build in collaboration with Magic Bus India Foundation at Nalla Narsimha Reddy College of Engineering and Technology. The workshop was organized with the objective of enhancing students 'technical knowledge and equipping them with industry-relevant skills in emerging technologies.

A total of 130 III Year students from the B. Tech DS actively participated in the program.

Objectives:

1. To provide in-depth understanding of Artificial Intelligence, Machine Learning, and Cyber security

2. To expose students to current industry trends and career opportunities

3. To encourage interactive learning and problem-solving skills

Workshop Sessions

The workshop was conducted within the college premises and was facilitated by experienced volunteers and trainers. The sessions covered insightful explanation on Artificial Intelligence, Machine Learning and Cyber Security. The sessions were highly interactive, involving discussions, practical examples, and real-life scenarios.

Learning Outcomes

1. Gained a clear understanding of AI, ML, and Cyber security concepts
2. Learned how these technologies are applied in various industries
3. Improved analytical thinking and problem-solving abilities
4. Enhanced awareness of career paths and skill requirements in the tech domain.

Conclusion

The workshop conducted by IBM Skill Build in collaboration with Magic Bus India Foundation was a great success. It provided students with practical exposure and deep insights into Emerging technologies. Such initiatives play a vital role in shaping students' future careers and preparing them for the competitive professional world. The

college sincerely appreciates the efforts of the organizers and volunteers for delivering such an impactful learning experience.

2.VALUE ADDED COURSES(VAC)-Cisco packet tracer computer networks

CONSOLIDATED REPORT OF VALUE ADDED COURSES

Objective

To provide students with practical exposure and advanced technical knowledge through Value Added Courses in cloud computing, computer networking, and data analytics technologies.

Outcome

Students gained knowledge in AWS EKS and Kubernetes, Computer Networks using Cisco Packet Tracer, and Python Pandas. The courses improved their technical skills, networking abilities, analytical thinking, problem-solving skills,

practical implementation capabilities, and awareness of modern computing technologies.

The Department of Computer Science & Engineering – Data Science organized a series of Value Added Courses for II, III, and IV Year DS students during 14-10-2025 to 28-10-2025 . The programs were conducted successfully with active participation from students and faculty members. These courses were designed to bridge the gap between academic learning and industry requirements by focusing on practical applications and skill enhancement.

The following Value Added Courses were conducted:

S.NO	Course Title	Faculty Coordinator	Date	Time	Venue
1	AWS EKS Vs Kubernetes Challenges: Load Balancing, POD Failures and Leader Election	V. Indrani	22-10-2025 to 29-10-2025	11:00 AM – 12:45 PM	CSE Seminar Hall
2	Cisco Packet Tracer – Computer Networks	G. Sri Ramya	28-10-2025 to 05-11-2025	09:00 AM – 11:00 AM	MBA Seminar Hall
3	Python (Pandas)	K. Nandhini	14-10-2025 to 18-10-2025	02:00 PM – 04:00 PM	MBA Seminar Hall

Faculty member

G. Sri Ramya conducted the Cisco Packet Tracer – Computer Networks sessions and explained networking fundamentals, network topologies, IP addressing, routing and switching concepts, network simulation, troubleshooting techniques, and practical implementation using Cisco Packet

Tracer. Students gained hands-on experience in designing, configuring, and managing computer networks.

The sessions were highly interactive and student-centered. Faculty members clarified doubts, conducted practical demonstrations, and encouraged students to participate actively in discussions and activities. The students showed great interest and enthusiasm throughout the courses.

Overall, the Value Added Courses were highly beneficial in enhancing students' technical knowledge, programming skills, analytical abilities, communication skills, and confidence. The programs successfully created awareness about cloud computing, computer networking, and data analytics technologies and prepared students for future academic and career opportunities.

3.DATA PIRATES CLUB

The club was held on 28 Decenber and the results was announced in the month of January. This was organized by Data science Department.

S.NO	Title	Faculty coordinator	Date	Venue
1	Photography club	Mrs. Sri Ramya , Mrs. Nandhini, Mrs. Laxmi	28-12-2025	Auditorium

The winners of the Photography club are :

S.NO	NAME OF THE STUDENT	ROLL NO	CLASS
1	Sai Teja	237Z1A6736	III YEAR
2	Sai Vinith	237Z1A6733	III YEAR
3	Srishanth	247Z1A6716	II YEAR
4	Abhinav	237Z1A6776	III YEAR
5	Eshwar	237Z1A67C8	III YEAR

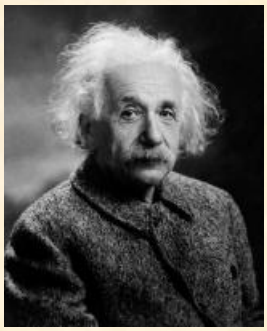
WORDS OF WISDOM

“Education is the manifestation of the perfection already in man.”

– Swami Vivekananda

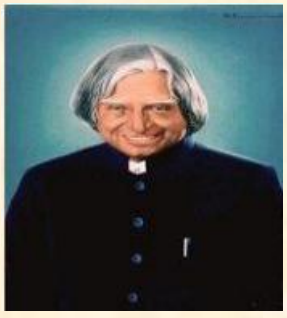
“The value of a college education is not the learning of many facts but the training of the mind to think.”

– Albert Einstein



“Learning gives creativity, creativity leads to thinking, thinking provides knowledge, and knowledge makes you great.”

– Dr. A.P.J. Abdul Kalam




Nalla Narasimha Reddy Group of Institutions
NNRG
Integrated Campus
NALLA NARASIMHA REDDY
Education Society's Group of Institutions–Integrated Campus
Near Narapally, Chowdariguda (V), Korremula 'X' Road, Ghatkesar (M),
Medchal-Malkajgiri (D), Hyderabad - 500088, Telangana.
(UGC AUTONOMOUS INSTITUTION)
NNRG
NALLA NARASIMHA REDDY
GROUP OF INSTITUTIONS