



# PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, Permanently Affiliated to JNTUK Kakinada & Accredited by NAAC)

1-378, ADB Road, Surampalem – 533 437, Near Peddapuram, E.G.Dist., A.P.

Ph: (08852) – 252233, 252234, 252235 Fax: (08852) – 252232

## DEPARTMENT OF CSE (DATA SCIENCE)

# DATA VIBES

## (January 2025 to June 2025)

### VOLUME: 6

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#### ADVISOR'S:

Mr. M V Rajesh

Assoc. Professor and HoD

#### EDITORIAL BOARD:

Mrs. N.V.S.Sowjanya  
Asst. Professor

B. Aarathisree (22A31A4402) – III CSE (DS)

B. S. G. S. H. Gowri (22A31A4467) – III CSE (DS)

D. Bhanu Durgesh (22A31A4484) – III CSE (DS)

#### FROM THE DESK OF THE HOD



Department of CSE (Data Science) have been started in the year 2020-21. The stream of **Data Science** enables organizations to analyze all

their data (real-time, historical, unstructured, structured, qualitative) to identify patterns and generate insights to inform and, in some cases, automate decisions, connecting intelligence and action. Today's best solutions support the end-to-end analytical process from accessing, preparing, and analyzing data to operationalizing analytics and monitoring results.

Students of our department have started an Industry 4.0 club from the department titled "Data Analytics Club". As part of the club there are student members from all branches of engineering. The objective of the club is to help Students to upgrade themselves with the tools and techniques of Data Analytics. Many different activities are conducted as part of the department and also as club activities like Seminars, Technical Series, Technical Quizzes and Data Product Panoply. Good number of students from different branches in the college has attended to these events and got benefited.



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## DEPARTMENT OF CSE (DATA SCIENCE)

### THE VISION OF CSE (DATA SCIENCE):

To emerge as a center of technical expertise in the field of computer science and engineering by producing globally competent professionals with technical & research capabilities, ethical values and team spirit.

### THE MISSION OF CSE (DATA SCIENCE):

**DM1:** To produce competent software professionals.

**DM2:** To induce application oriented and research capabilities in students for the betterment of society

**DM3:** To inculcate ethics and human values in students to adapt to the dynamism in the field of computing technology.

### STAFF LIST:

S. No.	Name of the Faculty Member	Designation
1	Mr. M. V. Rajesh	Associate Professor & HOD
2	Mrs. N. V. S. Sowjanya	Assistant Professor
3	Mr. K. Srikanth	Assistant Professor
4	Mrs. K. Harika	Assistant Professor
5	Mrs. P. V. Komali	Assistant Professor
6	Mrs. Ch. Veera Gayathri	Assistant Professor
7	Mrs. A. Daiva Krupa Nirmala	Assistant Professor
8	Mrs. D. Chakra Satya Tulasi	Assistant Professor
9	Ms. Y. Suma Chamundeswari	Assistant Professor
10	Mrs. V. Suvarna	Assistant Professor

### FACULTY ACHIEVEMENTS:

S. No.	Name(s) of the Faculty	Title of Award	Awarding Agency	Month and year
1	Mrs. N V S Sowjanya	NPTEL Discipline Star	NPTEL	Jan – Apr 2025



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## DEPARTMENT OF CSE (DATA SCIENCE)

### FDPs ATTENDED BY THE FACULTY:

S.No.	Name of the Faculty	Designation	Workshop/FDP Name	Organized by	Duration
1	Mrs. N V S Sowjanya	Assistant Professor	Machine Learning in Engineering Applications	Pragati Engineering College	4 <sup>th</sup> to 8 <sup>th</sup> June 2025
2	Mr. K Srikanth	Assistant Professor	Machine Learning in Engineering Applications	Pragati Engineering College	4 <sup>th</sup> to 8 <sup>th</sup> June 2025
3	Mrs. Ch Veera Gayathri	Assistant Professor	Machine Learning in Engineering Applications	Pragati Engineering College	4 <sup>th</sup> to 8 <sup>th</sup> June 2025
4	Ms. Y Suma Chamundeswari	Assistant Professor	Machine Learning in Engineering Applications	Pragati Engineering College	4 <sup>th</sup> to 8 <sup>th</sup> June 2025
5	Mr. K Srikanth	Assistant Professor	Data Science and Analytics	PACE Institute of Technology and Sciences, Ongole in collaboration with JNTUK	2 <sup>nd</sup> to 6 <sup>th</sup> June 2025
6	Mrs. K Harika	Assistant Professor	Advancements in Signal Processing using AI	Pragati Engineering College, Surampalem	21 <sup>st</sup> to 25 <sup>th</sup> Apr. 2025
7	Mr. M V Rajesh	Assoc. Professor & HoD	Recommender Systems	NPTEL-FDP	Jan to March 2025
8	Mrs. N V S Sowjanya	Assistant Professor	Data Mining	NPTEL-FDP	Jan to March 2025
9	Mr. K Srikanth	Assistant Professor	Foundation of Cloud IoT Edge ML	NPTEL-FDP	Jan to March 2025
10	Mrs. D.CH.S.Tulasi	Assistant Professor	National Level FDP on AI tools	Brainovision Solutions India Pvt. Ltd	17 <sup>th</sup> to 21 <sup>st</sup> Feb. 2025
11	Mrs. A.D.K.niramala	Assistant Professor	National Level FDP on AI tools	Brainovision Solutions India Pvt. Ltd	17 <sup>th</sup> to 21 <sup>st</sup> Feb. 2025
12	Mrs. K Harika	Assistant Professor	National Level FDP on AI tools	Brainovision Solutions India Pvt. Ltd	17 <sup>th</sup> to 21 <sup>st</sup> Feb. 2025
13	Ms. Y Suma Chamundeswari	Assistant Professor	National Level FDP on AI tools	Brainovision Solutions India Pvt. Ltd	17 <sup>th</sup> to 21 <sup>st</sup> Feb. 2025



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14	Mrs. Ch Veera Gayathri	Assistant Professor	National Level FDP on AI tools	Brainovision Solutions India Pvt. Ltd	17 <sup>th</sup> to 21 <sup>st</sup> Feb. 2025
15	Mrs. N V S Sowjanya	Assistant Professor	National Level FDP on AI tools	Brainovision Solutions India Pvt. Ltd	17 <sup>th</sup> to 21 <sup>st</sup> Feb. 2025
16	Mr. K Srikanth	Assistant Professor	National Level FDP on AI tools	Brainovision Solutions India Pvt. Ltd	17 <sup>th</sup> to 21 <sup>st</sup> Feb. 2025
17	Mrs. P V Komali	Assistant Professor	National Level FDP on AI tools	Brainovision Solutions India Pvt. Ltd	17 <sup>th</sup> to 21 <sup>st</sup> Feb. 2025
18	Mrs. P V Komali	Assistant Professor	Cyber Security	EXCELR	14 <sup>th</sup> to 20 <sup>th</sup> Feb. 2025
19	Mrs. P V Komali	Assistant Professor	Gen AI & Chat GPT Application in the Industry	SJC Institute of Technology,	27 <sup>th</sup> to 31 <sup>st</sup> Jan. 2025

## PAPER PUBLICATIONS DONE BY FACULTY:

Name of The Authors	Title of Book chapter/Conference paper	Name of The Book/Conference proceeding	ISSN	Month and year
Mr. M.V Rajesh	AI-Driven Business Intelligence for Adaptive Pricing Strategies in E-Commerce	International Journal of Science, Engineering and Technology	2348-4098	MARCH-APRIL,2025
Mr. M.V Rajesh	GaitAI: Cutting-Edge Machine Learning for Biometric Gait Recognition and Analysis	International Journal of Scientific Research & Engineering Trends	2395-566X	MARCH-APRIL,2025
Mr. K. Srikanth	Unveiling Energy Insights: An Explainable AI-Driven Framework for Precision Household Consumption Forecasting	International Journal of Scientific Research & Engineering Trends	2395-566X	MARCH-APRIL,2025
Mr. K. Srikanth	Real-Time Disaster Forecasting: Harnessing Social Media and NLP for Early Crisis Detection	International Journal of Science, Engineering and Technology	2348-4098	MARCH-APRIL,2025
Mrs. N V S Sowjanya	MindScope: A Comprehensive Review of Mental Health Assessment via social media Using Machine Learning and Deep Learning	International Journal of Scientific Research & Engineering Trends	2395-566X	MARCH-APRIL,2025
Mrs. N V S Sowjanya	AI-Driven Drug Discovery and Precision Medicine: Revolutionizing Healthcare with Machine Learning	International Journal of Science, Engineering and Technology	2348-4098	MARCH-APRIL,2025



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## DEPARTMENT OF CSE (DATA SCIENCE)

Mrs. K. Harika	AI-Powered Global Solar Radiation Forecasting: Fusing Machine Learning with Satellite Vision	International Journal of Science, Engineering and Technology	2348-4098	MARCH-APRIL,2025
Mrs. P V Komali	SkyFare AI: A Generative AI-Powered Web Platform for Real-Time Flight Price Prediction	International Journal of Scientific Research & Engineering Trends	2395-566X	MARCH-APRIL,2025
Mrs. Ch. V. Gayathri	AIIntelligent Loan Risk Assessment: A Machine Learning Framework for Personalized Credit Evaluation	International Journal of Scientific Research & Engineering Trends	2395-566X	MARCH-APRIL,2025
Mrs. Ch. V. Gayathri	Securing Android Apps: Deep Learning-Powered Threat Detection from Tweet Analysis	International Journal of Scientific Research & Engineering Trends	2395-566X	MARCH-APRIL,2025
Ms. Y. Suma Chamundeswari	Decoding Deception: A Machine Learning Approach for Detecting and Analyzing Fake News	International Journal of Scientific Research & Engineering Trends	2395-566X	MARCH-APRIL,2025
Ms. Y. Suma Chamundeswari	AutoRCuff: CNN-Autoencoder-Based Intelligent Detection of Rotator Cuff Tendon Tears from Ultrasound Imaging	International Journal of Scientific Research & Engineering Trends	2395-566X	MARCH-APRIL,2025
Ms. A. Daiva Krupa Nirmala	NeuroShield: AI-Powered Brain Stroke Detection Using Advanced Machine Learning Algorithms	International Journal of Scientific Research & Engineering Trends	2395-566X	MARCH-APRIL,2025
Ms. D. Chakra Satya Tulasi	CIFAKE: Precision Image Classification and Explainable AI for Detecting Synthetic Generations	International Journal of Scientific Research & Engineering Trends	2395-566X	MARCH-APRIL,2025
Mrs. V. Suvarna	IntelliMasint: AI-Driven Predictive Maintenance and Performance Optimization for Mechanical Systems	International Journal of Scientific Research & Engineering Trends	2395-566X	MARCH-APRIL,2025

## CONFERENCES ATTENDED:

S. No.	Name of the Faculty/Student	Title of the Paper	Title of the Conference	Date (s)
1	Mr. M V Rajesh A Veera Lahari (23A31A4401) V Pravallika (23A31A4422) K Mounika (23A31A4408) G R L Hema Sri (23A31A4405) Ch L N Prasanna (23A31A4403)	A Stacking Ensemble Machine Learning Model for Predicting Worker Productivity in the Apparel Sector	8 <sup>th</sup> International Conference on Soft Computing and Signal Processing (ICSCSP-2025) Springer	20 <sup>th</sup> & 21 <sup>st</sup> June 2025



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## DEPARTMENT OF CSE (DATA SCIENCE)

2	Mr. M V Rajesh Mrs. N V S Sowjanya M Nikhila (23A31A44D4) R Keerthi (23A31A44D7) N Asha Deepika (23A31A44D5) A Mounika Sri Lakshmi (23A31A44B8)	An Exploratory Study of Neural Collaborative Filtering based Recommendation System in E-Commerce	2 <sup>nd</sup> International Conference on Algorithms and Computational Theory for Engineering Applications (ICACTEA-2025)	4 <sup>th</sup> & 5 <sup>th</sup> April 2025
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### NPTEL ONLINE COURSES DONE BY FACULTY:

S. No.	Name of the Faculty	Course Title	Duration	Result
1	Mr. M V Rajesh	Recommender Systems	Jan-Mar 2025	Elite
2	Mrs. N V S Sowjanya	Data Mining	Jan-Mar 2025	Successfully completed
3	Mr. K Srikanth	Foundation of Cloud IoT Edge ML	Jan-Mar 2025	Elite

### NPTEL ONLINE COURSES DONE BY STUDENTS:

S. No	Roll No.	Name of the Student	Course Title	Duration	Result
1	22A31A4419	N Sri Durga Abhilasha	The Joy of Computing using Python	Jan-Mar 2025	Successfully completed
2	22A31A44A0	Mattaparthi Teja Nirgun	Data Base Management System	Jan-Mar 2025	Successfully completed
3	23A35A4401	Abbireddy Durga Devi	Programming In Java	Jan-Mar 2025	Elite
4	23A31A4404	Ethakota Pujitha	Data Analytics with Python	Jan-Mar 2025	Successfully completed
5	23A31A4411	Koyya Suchitra	Programming, Data Structures and Algorithms Using Python	Jan-Mar 2025	Successfully completed
6	23A31A4421	Thota Siva Naga Bhargavi	Data Analytics with Python	Jan-Mar 2025	Successfully completed
7	23A31A4424	Allu Ganesh	Cloud Computing	Jan-Mar 2025	Elite+Silver
8	23A31A4425	Bodala Akash	Programming, Data Structures and Algorithms Using Python	Jan-Mar 2025	Successfully completed
9	23A31A4431	Kakarapalli Shanmuk Venkat	Cloud Computing	Jan-Mar 2025	Elite
10	23A31A4441	Mosa Jaswanth	Programming, Data Structures and	Jan-Mar 2025	Elite



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## DEPARTMENT OF CSE (DATA SCIENCE)

			Algorithms Using Python		
11	23A31A4447	Piniseti Yogesh Sri Ram	Cloud Computing	Jan-Mar 2025	Elite
12	23A31A4449	Sai Prasad Roy	Privacy and Security in Online social media	Jan-Mar 2025	Elite
13	23A31A4452	Sodadasi Venu Koushik	Foundation of Cloud IoT Edge ML	Jan-Mar 2025	Elite
14	23A31A4457	Vasamsetti Hemanth Sanker	Programming, Data Structures and Algorithms Using Python	Jan-Mar 2025	Elite
15	23A31A4461	Cheekatla Bhargavi	Python for Data Science	Jan-Mar 2025	Elite
16	23A31A4463	Esukapalli Lakshmi Indu	Python for Data Science	Jan-Mar 2025	Elite+Silver
17	23A31A4464	Garikina Sri Surya Prabha	Python for Data Science	Jan-Mar 2025	Successfully completed
18	23A31A4469	Kosuri Lakshmi Prasanna	Python for Data Science	Jan-Mar 2025	Elite
19	23A31A4472	Mogali Bangaram	Python for Data Science	Jan-Mar 2025	Elite+Silver
20	23A31A4477	SK Sajida Bhanu	Python for Data Science	Jan-Mar 2025	Successfully completed
21	23A31A4480	Vallu Yasaswi	Python for Data Science	Jan-Mar 2025	Elite
22	23A31A4481	Vaskuri Pujitha Thanuja	Python for Data Science	Jan-Mar 2025	Elite+Silver
23	23A31A44C0	Burelli Mounika	Data Analytics with Python	Jan-Mar 2025	Elite
24	23A31A44B0	Adimulam Satya Sai Teja	Foundation of Cloud IoT Edge ML	Jan-Mar 2025	Elite
25	23A31A44B8	Ambavarapu Mounika Sri Lakshmi	Introduction to Machine Learning	Jan-Apr 2025	Elite
26	23A31A44C6	Deepika Gode	Introduction to Machine Learning	Jan-Mar 2025	Elite
27	23A31A44C7	Lohitha Kakula	Introduction to Machine Learning	Jan-Mar 2025	Successfully completed
28	23A31A44C8	Karri Likhitha Reddy	Data Base Management System	Jan-Mar 2025	Successfully completed
29	23A31A44C9	Kedarisetti Sai Tejaswi	Data Base Management System	Jan-Mar 2025	Successfully completed
30	23A31A44D4	Mortha Nikhila	Data Mining	Jan-Mar 2025	Elite
31	23A31A44D7	Ramena Keerthi	Introduction to Machine Learning	Jan-Mar 2025	Elite





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32	23A31A44D8	Varasala Harshitha	Data Base Management System	Jan-Mar 2025	Successfully completed
33	23A31A44E2	Meghana Yadlapalli	Data Analytics with Python	Jan-Mar 2025	Elite
34	23A31A44E3	Y Sri Sruthi Sai Bhargavi	Data Base Management System	Jan-Mar 2025	Elite
35	23A31A44E6	Boyina Satya Lakshmi Venkata Vara Prasad	Python for Data Science	Jan-Mar 2025	Elite
36	23A31A44E8	Chitra Venkat Reshman Sowrya	Data Mining	Jan-Mar 2025	Elite
37	23A31A44G0	Kothem Naga Durgarao	Introduction to Machine Learning	Jan-Mar 2025	Successfully completed
38	23A31A44H5	Vungarala Venkata Krishna	Data Base Management System	Jan-Mar 2025	Successfully completed
39	24A35A4402	Dara Jaya Sri	Data Analytics with Python	Jan-Mar 2025	Elite
40	24A35A4438	Piniseti Lakshmi Venkata Surya Sai	Data Base Management System	Jan-Mar 2025	Successfully completed

### PROFESSIONAL SOCIETY ACTIVITIES:

Department of CSE (Data Science) organized a Guest Lecture on **Machine Learning Models for Data Science Applications** under the Society for Data Science Student Chapter. The lecture was delivered by **Dr. SSSN Usha Devi N., Assistant Professor, Department of CSE, UCEK, JNTUK, Kakinada**, on **01-03-2025**. A total of **217** students attended this event.



Department of CSE (Data Science) organized an Interactive Session on **Data Mining and its Applications** under the Society for Data Science Student Chapter. The session was conducted by **Dr. M.H.M Krishna Prasad, Principal, University College of Engineering Kakinada (Autonomous), and Member of the Executive Council (EC), JNTUK, Kakinada**, on **04-01-2025**. A total of **120** students participated in the event.





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## DEPARTMENT OF CSE (DATA SCIENCE)



Department of CSE (Data Science) organized a Virtual National Level Short Term Training Program on **Java Full Stack with React JS & AI** in collaboration with **BrainOVision Solutions India Pvt. Ltd.** from **2<sup>nd</sup> to 22<sup>nd</sup> December 2024**. A total of **1465** students from various engineering disciplines have participated in the event.



Department of CSE (Data Science) conducted a 3-day workshop & Hackathon on **Building Data-Driven Websites with HTML, CSS and WordPress** under Society for Data Science Student Chapter. The session was delivered by **Mr. N Narayana Swamy, Director – Operations & Digital Marketing**, from **Brainovision Solutions India Pvt. Ltd.** from **4<sup>th</sup> to 6<sup>th</sup> November 2024**. A total of **134** students attended the workshop.







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## DEPARTMENT OF CSE (DATA SCIENCE)

A 2-day workshop on **DevOps and Cloud with Azure Data Tools** was organized by department of CSE (Data Science) as part of Society for Data Science Student Chapter. The resource person for the workshop was **Mr. Pramod Kumar Kotagiri, CTO, Software Gurukulam Pvt. Ltd., Hyderabad**. The workshop was conducted from **22<sup>nd</sup> to 23<sup>rd</sup> August 2024**.



Department of CSE (Data Science) conducted a 3-day workshop on **Full Stack Fundamentals: Creating Interactive Data Driven Web Applications** under Society for Data Science Student Chapter. The session was delivered by **Mr. Obul, Expert Trainer, from Brainovision Solutions India Pvt. Ltd.** from **12<sup>th</sup> to 14<sup>th</sup> August 2024**. A total of **102** students attended the workshop.



## DATA ANALYTICS CLUB ACTIVITIES

S.No.	Activity	Date	Speaker	No. of Students Participated
1	Technical Seminar – A Stacking Ensemble Machine Learning	20-06-2025	Ms. A Lahari Ms. Ch Prasanna Ms. G Hemasri Ms. V Pravallika Ms. K Mounika	65
2	Data Science Roadmap	02-05-2025	Mr. V V Naga Raju Neetipalli (23A35A4412)	61



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3	Data Structures made easy with Python	26-04-2025	Mr. S Pradeep (22A31A44B2)	65
4	Tech Entrepreneurship in Data Science	20-03-2025	Ms. P Yuktha (22A31A4423) Ms. D Sneha (22A31A4427)	48
5	Technical Event – Understanding NLP Fundamentals	04-03-2025	Mr. V Yagnesh (22A31A44C1)	33
6	Technical Event – Raw Data to Smart Insights	13-02-2025	Ms. B S G S H Gowri (22A31A4467)	36
7	IDE Bootcamp Orientation Session	31-01-2025	Ms. P S S Harshitha (22A31A4420) Mr. K Venkanna Babu (22A31A4443) Ms. B Sharmila (22A31A4403) Ms. N Sree Amrutha (22A31A4418) Ms. Ch Bindu Patvika (22A31A4405) Mr. P Sivaram (22A31A4453)	55
8	Technical Event - Prompt Engineering: Tools, Techniques & Future Opportunities	30-01-2025	Mr. M Sudarshan (22A31A4447)	66

## STUDENT ASSOCIATION ACTIVITIES

- ❖ The Department of CSE (Data Science) organized an online **alumni talk** under Student Association on **22<sup>nd</sup> March 2025**. The session was delivered by **Ms. Harika Vanum, Analyst at TCS, Chennai**, who shared her insights and experiences, inspiring the students with valuable industry knowledge and career guidance.
- ❖ The Department of CSE (Data Science) organized an online **alumni talk** under Student Association on **15<sup>th</sup> February 2025**. **Ms. T Y L Gayatri Mehal, Java Developer at Accenture, Bangalore**, addressed the students on balancing academics and skill development, enhancing communication skills, and the importance of active participation, motivating them to excel both academically and professionally.



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## DEPARTMENT OF CSE (DATA SCIENCE)

### NCC ACTIVITY PARTICIPATIONS

S. No	Roll Number	Name of the Student	Title of the Program	Date / Period of the Activity	Place of the Activity
1.	23A31A4474	Ms. P Naga Sri	Combined Annual Training Camp - II	22 <sup>nd</sup> June to 1 <sup>st</sup> July 2025	Aditya College of Engineering
2.	23A31A4491	Mr. J Rohit Kumar	Combined Annual Training Camp - II	22 <sup>nd</sup> June to 1 <sup>st</sup> July 2025	Aditya College of Engineering

### ACADEMIC TOPPERS:

S.No	Year/Sem	Roll No	Name of the Student	SGPA
1	II/I	23A31A4411	Koyya Suchitra	9.55
2		24A35A4403	Ganisetti Gayathri Devi	9.4
3		23A31A4479	Vadapalli Lakshmi Pranathi	9.53
4		23A31A4466	Karri Vangmayi	9.15
5		23A31A44E0	Vempadapu Radha	9.3
6		23A31A44C2	Chilukuri Satya Ganga	9.25
7	III/I	22A31A4402	Balla Aarathisree	9.02
8		22A31A4404	Chavvakula Lasyavalli	8.74
9		22A31A4484	Dammala Bhanu Durgesh	9.02
10		22A31A4475	Nulu Subrahmanya Venkata Lakshmi	8.88
11	IV/I	21A31A4427	Singuluri Annapurna	8.96
12		21A31A4418	Pasumarthi Samyuktha	8.87