



VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous, ISO 9001:2015 & QS I-Gauge Diamond Rated Institute, Accredited by NAAC with 'A++' Grade
NBA Accreditation for CE, EEE, ME, ECE, CSE, EIE, IT B.Tech. Programmes
Approved by AICTE, New Delhi, Affiliated to JNTUH, NIRF 109 Rank in engineering Category
Recognized as "College with Potential for Excellence" by UGC
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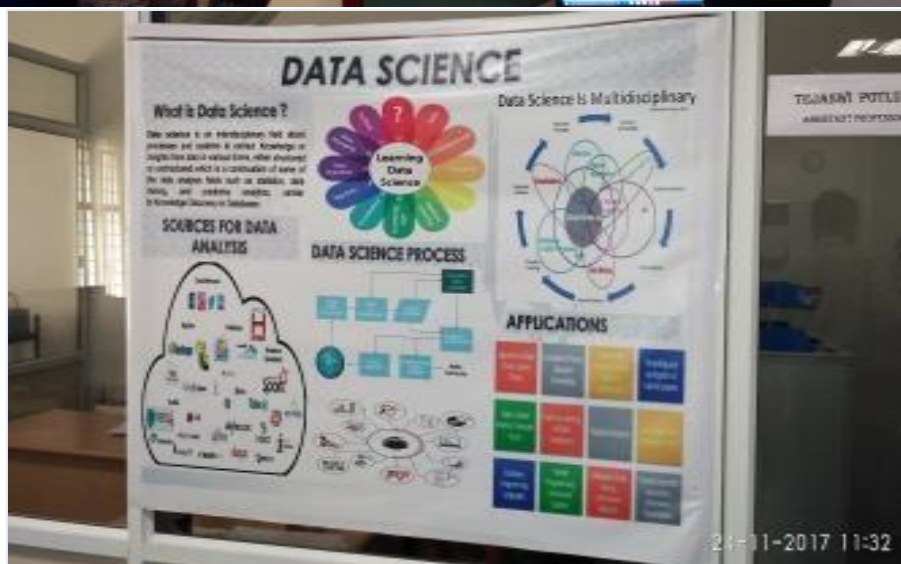
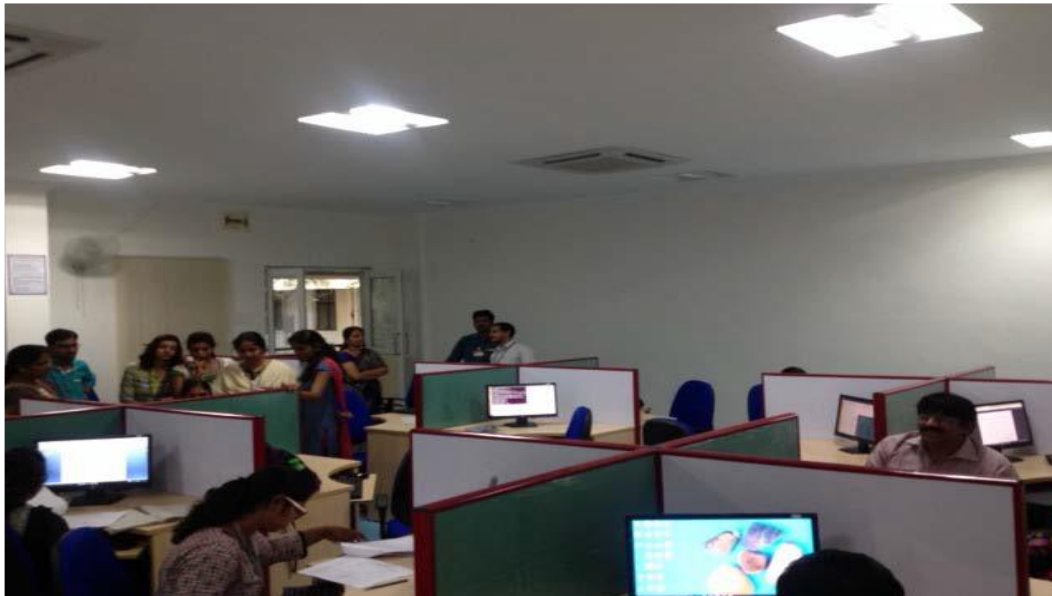
Department of Computer Science & Engineering

CENTER FOR DATA SCIENCE

Department of Computer Science and Engineering has **Center for Data Science** that help students in taking up course based projects, mini projects and major projects. These projects often lead to publications, best project awards and patents. Faculty utilize these laboratories to carry out their research work, paper publications and funded projects. Apart from core computing facilities these project laboratories are equipped with High-End Computing GPUs(2 Nos.) to work on large datasets in the area of, **Machine Learning (ML), Deep Learning (DL), Data Analytics, network security, cloud computing, and cyber security domains**. These GPU computers are available online 24/7 and are assigned with Public IPs so that they can be accessed across the globe.

Objective:

This center focus on solving real-time problems by utilizing Big Data and Data Science technologies through extensive academic research of faculty, research scholars, post graduate and under graduate students to accelerate the implementation of solutions.



Facilities:

- **Hardware:** Intel Core i7-10700@2.9GHz, DDR4 RAM 8GB, HDD SATA 1 TB.
- **Software's:** Windows 10 Prof, Python, Weka, RStudio.

The Ambience of Center for Data Science:**List of Best Projects Carried out under this center**

S.No	Project Title
1	Student Performance Analysis For Outcome Based Education
2	Predictive Analytics On Seasonal And Acute Diseases
3	Predicting Parkinson's Disease Using Deep Neural Networks
4	Aims (Automated Preterm Infant Monitoring System)
5	Sign Language Translator Using Computer Vision
6	Prediction of Depression in Techies at Workplaces
7	Emotion Uncovering, Post Covid A Deep Learning Approach

The project laboratories of the department encouraged research culture among the faculty. These laboratories facilitated research and created high impact on quality publications and generated funded projects. It gave a platform for patenting faculty research findings while involving students also for a real time experience.

Faculty Quality Publications

S.No	Name of Authors	Title of the Paper/ Book Chapter/Books	Title of the Journal /Title of the Conference/Title of Book	Indexing (SCI/SCOPUS / WoS/UGC/ refereed Journals)
1	C Pretty Diana Cyril,J Rene Beulah , Neelakandan S, Prakash Mohan, A Harshavardhan and D Sivabalaselvamani	An automated learning model for sentiment analysis and data classification of Twitter data using balanced CA-SVM	Concurrent Engineering: Research and Applications	SCI

2	C. Vidyadhari, N. Sandhya and P. Premchand	Bat-Grey Wolf Optimizer and kernel mapping for automatic incremental clustering	International Journal of Modeling, Simulation, and Scientific Computing	SCI
3	SachinChirgaiya, Deepak sukheja, Niranjanshrivastav	Analysis of Sentiment Based Movie Reviews Using Machine Learning Techniques	Journal of Intelligent & Fuzzy Systems	SCI
4	V.Nyemeeesha and B. Mohammed Ismail	Implementation of noise and hair removals from dermoscopy images using hybrid Gaussian filter	Network Modeling Analysis in Health Informatics and Bio-Informatics	Web of Science
5	Ambika Shetkar, C. Kiran Mai, and C. Yamini	Diabetic Symptoms Prediction Through Retinopathy	Proceedings of International Conference on Advances in Computer Engineering and Communication System	Web of Science
6	S. Yeruva · B. P. Gowtham (B) · Y. H. Chandana	Prediction of Anemia Disease Using Classification Methods	Proceedings of International Conference on Advances in Computer Engineering and Communication System	Web of Science
7	DivyaVanam and VenkateswaraRaoPulipati	Identifying Duplicate Questions in Community Question Answering Forums Using Machine Learning Approaches	Proceedings of International Conference on Advances in Computer Engineering and Communication System	Web of Science
8	Dr. N. Sandhya, Dr. M. Rajasekar, M. Gayathri	Prediction of Mechanical Properties of Metal through Machine Learning Approach	International Journal of Advanced Trends in Computer Science and Engineering	Scopus
9	N.LakshmiKalyani, JeshmithaG, Bindhu Sri Sai U, Samanvitha M, Mahesh J, Dr.B.V.Kiranmayee	Machine Learning Model-Based Prediction Of Flight Delay	2020 Fourth International Conference on I-SMAC	Scopus
10	B. Srivani, N. Sandhya, and B. Padmaja Rani	Literature review and analysis on big data stream classification techniques	International Journal of Knowledge-based and Intelligent Engineering Systems	Scopus
11	SabhaSamreen, Kiran Mai Cherukuri, Dommati Venkat sai Goud	Predictive Data Analysis to Identify Heart Anomalies	International Journal of Recent Technology and Engineering	Scopus
12	Dr.N. Sandhya, Dr.M. Raja Sekar and Chennakesava Rao Bandaru	GA-SVM Approach to Predict the Mechanical Properties of Steel	Journal of Advanced Research in Dynamical and Control Systems	Scopus

Faculty Funded/Sponsored Projects

S NO	PROJECT TITLE	FUNDING AGENCY	PRINCIPAL INVESTIGATOR	Total Amt. Rs.(In Lakhs)	Status
1	Development and Validation for Non-Technical Losses(NTL's) detection of Electricity Theft using Genetic hybrid SVM approach	UGC minor	Mrs.S.Nagini	2.50	Completed (17-04-2014 to 20-05-2016)
2	Development of a High level frame work that works on flash TFL 2.0 specification for animated text displkay in e-learning	UGC minor	Mrs.P.Radhika	3.30	Completed (17-04-2014 to 06-05-2016)
3	Development of effective Wireless Sensor Network system for Water Quality and Quantity Montoring(AquaSense)	Media Lab Asia	Dr. C. D. Naidu/ECE, Dr.G.Ramesh Chandra(Co-PI)/CSE	30.18	Complete (Commencement: 20-09-2013)
4	A Data Mining Approach for The Efficient Detection of Brain Tumor Disease.	UGC minor	Mrs. B.V.Kiran mayee	0.65	Completed (Commencement: October 2016)
5	Development of a Tool to Predict Mechanical Properties of Steel by Exploring Data Science Techniques	AICTE	Dr.N.Sandhya	4.27	On going (Commencement: 2-08-2017)

List of Faculty/Students Patents

S.No	Patent Number/Copy Right (Application Number)	Publication Date	Inventors (Name of Faculty/ Students) In College	Patent Title	Status
1	201741045066	22-12-2017	NarayanaRaoVenkata Naga Sripada, Vodnala Naveen Kumar, Padma Shayi Kumar, BaswarajMamidgi, Bhaskar Kakarla.	A Method and System For Analyzing Risk Associated With Respiratory	Granted
2	201941033006	13-09-2019	S.Kranthi Kumar, Dr. ThulasiBikku, Dr.S.B.Chordiya, Natukula Sainath, Dr. ManjuKhari, Dr.S.Nagaprasad, AmitBhati.	Vigyaa: A Novel Integral System For Precision Agriculture	Published
3	202041001461	17-01-2020	Dr.P Lalitha Surya Kumari, Ms. Purude Vaishali Narayan rao, Channabasamma, Dr. Puja S Prasad, V Shiva Narayana Reddy,	Dart(Depression and Related Tracker) : Identification System to Find And Prevent Depression Tendencies of	Published

			Pari Nidhi Singh.	Women	
4	202041001789	17/01/2020	Dr.N.Sandhya, Dr. M. Raja Sekar, Dr.Ashish Kumar Chakraverti, Vivek Kumar, P.ILA Chandana Kumari, Dr.Yashal Singh.	Computer Cache Memory Performance Enhance Using	Published
5	202021027657	16-10-2020	Dr.Kavita r singh, Dr. Rakeshkumar , Mr. N sandeepchaitanya, Prasanthi gottumukkala,, Mrchekuririsumanth, Dr. amitkumartyagi,	ABIE-Voting system: aadhaar and blockchain intelligent electronic voting system	Published
6	202041030793	21/08/2020	Mr. N Sadeepchaitanya Dr. MD TabrezNafis Dr.ManjuKhari Dr.KalpanaKamalakar Deshmukh, Dr.VrushsenPurushott amPawar, Dr.Beg Raj Singh	Cloud Sharing System: Cloud Computing Information Sharing System in Real Time	Published
7	202041031965	19-2-2021	PeddakasulaKiranmai, D.L.N. Prasunna, SarabuJoshna, J Naresh Kumar, PathiRadhika, Channabasamma, A. Sai Santhosh, A ArunaKumari	Fake News Analysis Using Machine Learning and Updateable Neural Analysis	Published
8	2020101738	02/09/2020	Purna Chand Kollapudi, Brahmananda Reddy Annapu Reddy, ChiranjeeviManike, Subhash P, Narayana M V, Durga Prasad Kavadi,	Automated Real – Time Driving Behavioral Modeling Analysis And Reporting in Denser Traffic Using Data Mining	Granted
9	2020102026	16-09-2020	N Sandeep Chaitanya, Ramesh Vatambeti, RavikanthMotupalli, Chekuri Sri Sumanth, A ArunaKumari, SomavarapuJahnvi, Tejaswi Potluri, PinamalaSruthi, KandulaNeha, ShaikMahammadJame eruddin	ELSM- Quantum Computing: extremely large databases store into a small memory using quantum computing	Granted
10	202041051970	11-12-2020	Dr.C.Kiran Mai Dr.S.Nagini Dr.P.Neelakantan	asp:crime site analysis: automatic method and process of performing crime site analysis and management system	Published

11	202141006923	26-02-2021	1. Mr N Sandeep Chaitanya, Dr.P V Siva Kumar Mr M Ravi Kanth.. Mr.Ch. Sri Sumanth Dr P Subhash Dr SrinivasKanakala Mr GnanaPrakashThurak a Ms. A ArunaKumari Ms. PabbaPrasanna	AWS-Cloud Data Performance Increased using Machine Programming.	Published
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