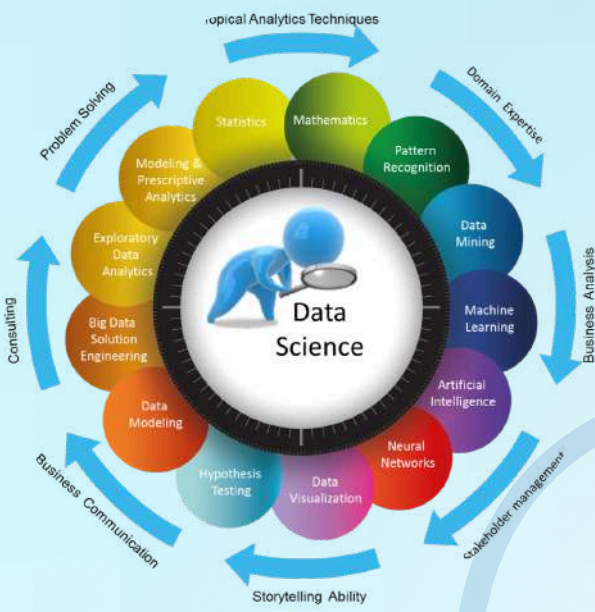




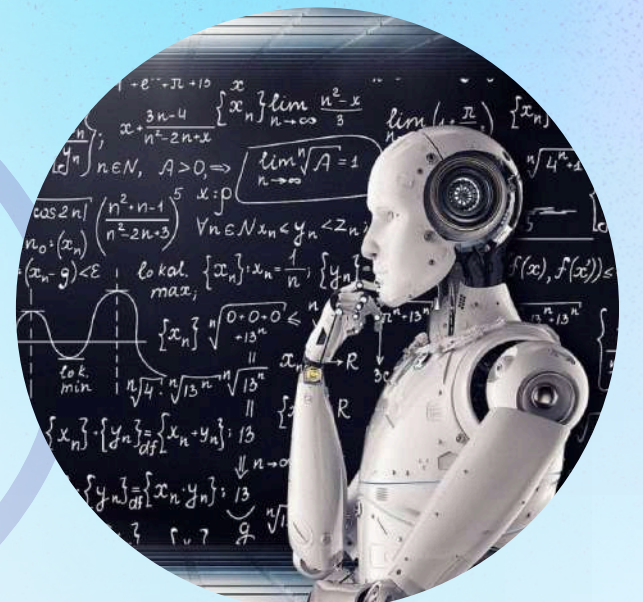
**VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE
OF ENGINEERING & TECHNOLOGY**

Department of Computer Science and Engineering



Center for

DATA SCIENCE



LOCATION: A-BLOCK, A-102



VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

“
**Advancing Research and
Innovation in Data Science**
”



About:

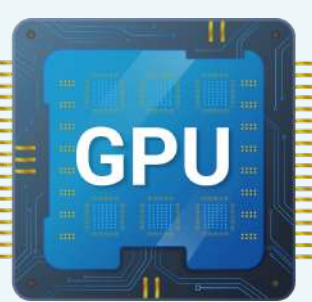
The Center for Data Science Lab is a leading research hub dedicated to advancing the field of data science. Our mission is to explore and develop innovative solutions to complex data challenges, leveraging cutting-edge technologies and interdisciplinary collaboration.

At the Center for Data Science Lab, we conduct pioneering research in various domains of data science including machine learning, big data analytics, data visualization, predictive modeling, and natural language processing.

Objectives:

- Develop cutting-edge algorithms and computational techniques tailored to address key challenges in healthcare, security (including blockchain), and other industry sectors.
- Foster interdisciplinary collaboration to conduct high-impact research that leads to peer-reviewed paper publications.
- Strategically pursue funding opportunities to support research endeavors aligned with societal and industry needs.

Computing Facilities:



Graphical Processing Unit(GPU) -1
Intel Core i7-9700 Processor RAM : 16GB
DDR4 HDD : 1TB SATA
240GB SSD HDD Nvidia RTX 2060 8GB Graphic Card



Desktop: 36 Nos. Make: Dell
Model: Vostro 3888 Processor: Intel Core i7-10700.
RAM: 8GB DDR4 RAM HDD: SATA 1TB
Monitor: 21 " LED Operating System: Windows 10/11 Pro

Ms. Datti Jyothsana, bearing roll number 2201105002, pursuing Ph.D. under the esteemed guidance of Dr. G. Ramesh Chandra on 3D object detection in point cloud data from JNTUH.



“
"Empowering the Future with Data.
Leading advancements in
data science research."
”



"Pioneering Data-Driven Innovations. Unlocking insights to shape the future."



VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

Outcomes



1. Research Interest Groups (RIG)

- Develop prototypes and conduct experiments to validate theories and practical applications and reach out industries for product development.
- Publish findings in peer-reviewed journals, conference proceedings, and other academic platforms.
- Establish and maintain a professional network with other research institutions, industry leaders, and technology developers in DS fields.

2. Student Projects

1. PATIENT OBLIGATION PERCEIVER USING EYE GESTURES
2. Knowledge based Cognitive Prototype: Video game for children with Absence epilepsy and to enhance their attention
3. STUDENT HAPPINESS INDEX PREDICTION USING ML

3. Workshops/Seminars

1. FDP on “**Recent Trends in Cognitive Science and its Applications**” organized in association with Vikram University, Oriental University & Soc, Ips Academy from 13-03-2023 to 18-03-2023
2. 10 Days FDP on “**Research Challenges and hands on practice in Data Analytics & AI**” from 21-7-2022 to 31-7-2022
3. One week FDP on “**Data Analytical Tools and Python Framework**” from 11-05-2022 to 17-05-2022

4. Patents

1. Critical Patients Monitoring Device: Critical Patients Monitoring using Machine Learning Feature Selection Technique. – Published
2. Fake News Analysis Using Machine Learning and Updateable Neural Analysis – Applied
3. Automated Real - Time Driving Behavioral Modeling Analysis And Reporting in Denser Traffic Using Data Mining - Granted



"Where Data Meets Discovery. Transforming information into groundbreaking solutions."



VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

5. Papers Published - 18



"Dr. V. Baby, N. Sariika, Dr. Ch. Suresh, Ch. Ravi Varma, K. Gayatri Praharshitha, K. Sushma, and M. Varun were honored with the Silver Award for their groundbreaking innovation in developing a patient obligation recognition system based on eye gestures."



Professor Uppala Reshmitha received the Best Paper Award at the IEEE International Conference in December 2023 for a novel knowledge semantic video game prototype to treat patients with absence epilepsy.



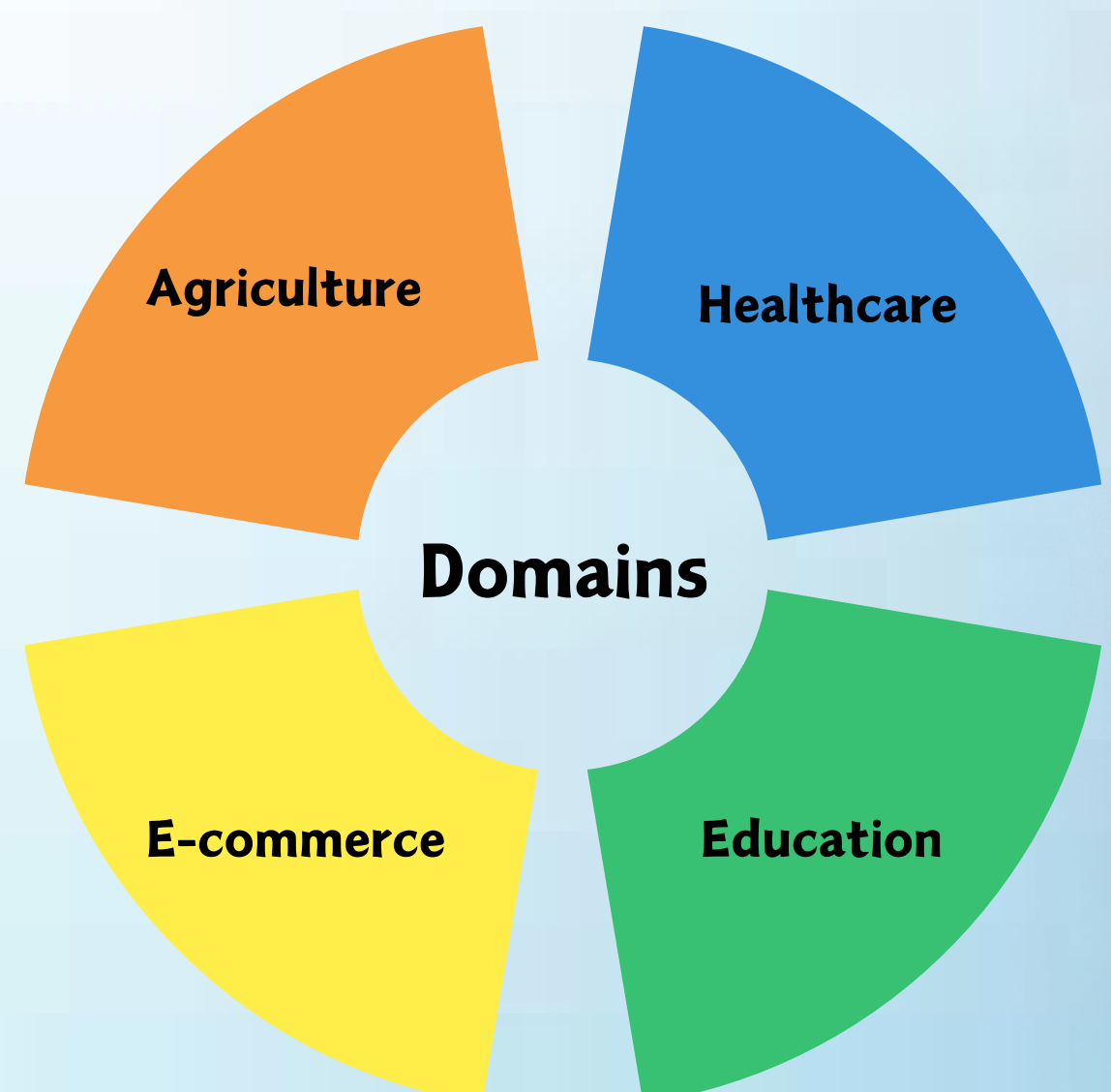
The CSBS students' "Sentiment Analysis of Twitter Data" project was selected for the 12th Project Innovation Contest at KIIT, Bhubaneswar.

6. Funded Projects

1. **"Development of a Tool to Predict Mechanical Properties of Steel by Exploring Data Science Techniques"** by Dr. N. Sandhya is an AICTE-funded project with a budget of ₹4,27,176, scheduled for a duration of 3 years from 2017 to 2018.
2. **"Identification of Sickle Cell Anemia Using Deep Neural Network"** by Dr. Sagar Yeruva is a TEQUIP III JNTUH-funded project with a budget of ₹3,00,000, scheduled for a duration of 1 year from 2019 to 2020.
3. **"A Data Mining Approach for the Efficient Detection of Brain Tumor Disease"** by Mrs. B. V. Kiran Mayee was a UGC-funded project with a budget of ₹65,000, scheduled for a duration of 2 years from 2016 to 2017.



MoU with TCS - Faculty attended FDPs on CO, Artificial Intelligence, Information Security and Computer Organization, organized by TCS



"Unlocking Insights, Driving Solutions. Innovate, analyze, and impact the world."