

# Anjani Deedee Pya Siripurapu

Junior Undergraduate  
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## Educational Qualifications

Year	Degree	Institution	CGPA/%
2022-Present	B.Tech, CSE (Data Science) Honours	Nadimpalli Satyanarayana Raju Institute of Technology, Visakhapatnam	9.0/10.0
2022	ISC – XII	Alwardas Public School, Visakhapatnam	85.00%
2020	CBSE – X	Little Angels School, Visakhapatnam	94%

## Honors and Achievements

- Awarded the **Honors degree** for securing a position in the **top 10%** of the Computer Science and Engineering (Data Science) department at **NSRIT**.
- 100% in CUET English exam(PCMB with English and General Knowledge).
- Stood **3rd** in the national-level hackathon “HackToImpact” (GVPC, Visakhapatnam).
- Stood **3rd** in the national-level hackathon “Hack with Vizag” (NSRIT, Visakhapatnam).
- Stood **2nd** in the ideathon competition conducted on “Engineer’s Day.”(NSRIT, Visakhapatnam)
- Recognised for **exceptional performance** in a paper presentation on “Software Engineering Association Day.”(NSRIT, Visakhapatnam)
- Among the **top 20 teams** selected from **500** for the mentoring program under “Enterprising Bharat” (which is sponsored by Grameena Incubation Center).
- Stood **2nd** in the ideathon competition conducted by multiple departments (CSE, CSM, CSD, ECE, EEE, Mech).
- Stood **1st** in the **Internal Smart India Hackathon**.
- Stood **1st** in Project Expo conducted for “Technimble 2k25”.

## Work Experience

### Demy Software Solutions

JavaScript Intern

Visakhapatnam, India

June 2024 – July 2024

- Developed interactive, responsive web applications using JavaScript, HTML, CSS, React.js, and Node.js, improving user engagement by 30% and overall app performance by 25%.
- Optimized website speed and stability by reducing load times by 40%, integrating RESTful APIs for seamless data flow, and decreasing bug reports by 20% through effective debugging.
- Participated in code reviews and team collaborations, ensuring 95% adherence to coding standards and contributing to a 15% boost in development efficiency.

### Agnirva by ISRO

Space Research Intern

Remote, India

Oct 2024 – Dec 2024

- Worked on aerospace projects under ISRO Agnirva, gaining hands-on experience in the space sector.
- Enhanced problem-solving, adaptability, and technical expertise for future opportunities in space technology.
- Demonstrated proactive learning and resilience while contributing to innovative aerospace solutions.

## Skills

**Programming Languages:** Python, C Programming, R Programming, Java, JavaScript, SQL, HTML, CSS  
**Tools & Technologies:** GitHub, Microsoft Office, Microsoft Power BI, ChatGPT, Google AI Studio, Google Gemini, Google Teachable Machines, Google Colab

## Frameworks and Libraries:

- Machine Learning:** Linear Regression, Logistic Regression, Support Vector Machine (SVM), Decision Trees, Random Forests, K-Means Clustering, XGBoost, Scikit-learn, NLTK, Gen AI, Artificial Intelligence (AI)
  - Deep Learning:** TensorFlow, PyTorch, Keras
  - Web Development:** Flask, Django, Node.js, React.js, Amazon AWS
- Specialisations & Domains:** Machine Learning, Natural Language Processing (NLP), Data Science, Internet of Things (IoT), Robotic Process Automation (RPA)

## Miscellaneous

- As a **member of Google Developers Group(Vizag), IEEE and ISTE**, three of the most prestigious professional organisations for engineers and technologists, I have been exposed to cutting-edge developments in the field.
- Have **published a review paper** on “**Expanding Cybersecurity with Advanced Machine Learning**” in **IJIRCCCE**.
- I completed **8 weeks of community service**, raising awareness about “**Understanding and Addressing Health Issues in Pre-Teens**”.
  - Conducted a comprehensive survey on the health, medications, and dietary habits of pre-teens in a village.
  - Attended a government health camp and distributed medicines to the underprivileged.
  - Organized an awareness camp at a local high school, benefiting the broader community.
- I am honoured to be in the **top 10% of my department** at **NSRIT** in terms of academic performance, earning an **Honours degree**, which reflects my consistent excellence and dedication to my studies.
- Attended various workshops on **Robotic Process Automation, Power BI, Generative AI and Interpersonal and Intrapersonal Communication**.
- Did a certification course on **Programming in Python including Django**.
- Served as **Class Representative** for two consecutive years, demonstrating leadership, communication skills, and responsibility in representing my peers.
- Participated in a workshop on “**Generative AI Mastery**” conducted by IIT Hyderabad.
- Have a good knowledge of Machine Learning tools like Roboflow, Hugging Faces and Gymnasium Documentation.

## Projects

### 1. Brain Stroke Prediction Using ML Models

- Developed a machine learning model to predict brain stroke risks using parameters such as age, sex, BMI, and blood sugar.
- Implemented algorithms like **Random Forest, Naive Bayes, XGBoost**, and **Decision Tree** for prediction accuracy.
- Designed an **interactive web application** that provides personalized health recommendations based on user input.
- Employed data preprocessing techniques and model evaluation to achieve high prediction reliability.

2. INSAAF (Interactive System for National Adjudication and Assistance Framework)

- Automated various legal procedures, featuring an AI-driven **legal chatbot** for user assistance.
- Provided 9 essential services, including **eFiling**, **case status**, and **advocate search**, enhancing user accessibility.
- Integrated **Blockchain** technology to ensure data security and privacy of personal information.
- Simplified the writ generation process through a user-friendly **Q&A-based interface**.

3. POSTFIX

- Developed an **NLP-based application** to address incomplete delivery and missing address details.
- Leveraged **NLTK** for parsing and resolving address-related issues in real-time.
- Enhanced the efficiency of logistics and delivery systems by ensuring accurate address recognition.
- Applied advanced **text processing** methods to clean and standardise address data.

4. NAV Analysis

- Analyzed historical stock market data and built a system that updates the dataset daily.
- Displayed trends using **line graphs** and ranked the **top 5 performing funds** based on **Sharpe Ratio** and **NAV**.
- Integrated a **SIP calculator** to help users plan investments effectively.
- Ensured real-time data updates and seamless data visualization through an automated daily data-fetching mechanism.

5. Smart City IoT Project

- An innovative **IoT-based smart city** project featuring:
- Automated smart street lights** with light intensity sensors to save energy.
- EV charging points** are powered by solar energy from street lights, promoting sustainability.
- Smart bus tracker** using GPS and QR codes to track buses in real-time.
- Stormwater detection** to alert authorities and residents during high water levels.
- Self-maintenance system** for street lights, notifying authorities of malfunctions.

6. Mental Health Prediction

- Utilized the **DASS-42 questionnaire** to assess mental health risk factors and predict potential future issues.
- Applied a range of **machine learning algorithms** to identify patterns and predict mental health outcomes.
- Created a user-friendly interface to provide mental health assessments and personalized suggestions.
- Focused on early intervention and preventive measures for mental health conditions.

7. WISER: Women’s Intelligent Screening & Early Risk

- Leveraged health indicators like age, BMI, stress levels, and menstrual irregularities to assess early menopause and perimenopause risk.
- Applied unsupervised learning models, including Hierarchical Clustering and GMM, to group users based on hidden health patterns.
- Achieved the highest clustering accuracy of **95%** using Gaussian Mixture Models for risk profiling.
- Designed a user-friendly system to deliver personalized, explainable insights through visualisations like dendrograms and cluster plots

Relevant Coursework

Linear Algebra and Differential Equations (O)  
Operating Systems (A+)  
Fundamentals of Computer Science (A+)  
Partial Differential Equations and Vector Calculus (A+)  
Data Structures using ‘C’  
Digital Logic Design  
Programming with Python (A+)  
Cryptography and Network Security  
(O) and (A+) refers to the grades scored in that subject.

Design and Analysis of Algorithm  
Database Management Systems  
Mathematical Foundation of Computer Science (A+)  
Managerial Economics and Financial Analysis  
Probability and Statistics  
Programming for Problem Solving using ‘C’ (O)  
R Programming (O)  
Data Visualization

Computer Networks (A+)  
Foundations of Data Science (O)  
Theory of Computation  
Big Data  
Machine Learning  
Modern Software Engineering  
Introduction to Tableau (A+)  
Discrete and Inferential Statistics (A+)  
Data Warehousing and Data Mining

Languages Known

English (Full Language Proficiency)  
Hindi (Full Language Proficiency)  
Telugu (Full Language Proficiency)  
Bangla (Limited Proficiency)  
Punjabi (Limited Proficiency)

Profile Links

Github: <https://github.com/dedeepya07>

LinkedIn:  
<https://www.linkedin.com/in/anjani-dedeepya-siripurapu-a2a202281/>