

# S NAGAPREETHI

Hyderabad, Telangana, India

✉ [preethisomayajula@gmail.com](mailto:preethisomayajula@gmail.com)

in [Preethi Somayajula](#)

🌐 [SnPreethi](#)

## Education

### MLR Institute of Technology

Bachelor of Technology in Computer Science & Engineering - AI & ML (CGPA: 8.49)

2020 – 2024

Hyderabad, India

### Narayana Junior College

XII - Telangana State Board of Intermediate Education (Percentage: 95.1)

2018 – 2020

Hyderabad, India

## Experience

### MLR Institute of Technology

Academic Researcher

Jan 2023 – Apr 2024

Hyderabad, India

- Actively collaborated in conducting statistical analyses and devising algorithmic workflows of various ML techniques.
- Authored a research paper** (under publication), comparing ML algorithms to identify key effectiveness metrics for optimizing **Agricultural Surveillance System**, achieving 82% accuracy in crop disease detection.

### Sclanet Inc.

AIML Intern

Mar 2023 – Aug 2023

Hyderabad, India

- Collaborated with a 5-person ML team to develop an inventory management model that processed 1000+ SKUs daily, reducing stockouts by 45% and improving inventory accuracy to 87% using Computer Vision and ML.
- Conducted extensive product image searches** to curate a diverse and relevant set of **1000+ product images**.

### H-Bots Robotics

Machine Learning Intern

Mar 2022 – Sep 2022

Hyderabad, India

- Collaboratively developed an **IoT-enabled interactive robot** deployed for college laboratories to detect and identify individuals, measure their temperature through a handshake, and greet them by name.
- Reduced processing time by 25%, increased accuracy by 15%**, integrated servo motors and temperature sensors, and authored a technical paper detailing the design, implementation, and performance of the robot.

## Projects

### Driver Assistant System 🔗

Python, Computer Vision, Object Detection

- An artificial agent to reduce human error-related road crashes, focusing majorly on **drowsiness detection**, **lane detection**, **lane departure**, **lane keeping assistance**, **object detection & recognition**, and **collision warning**.

### IoT Based Interactive Robot 🔗

Python, Sensors, Facial Recognition, ML, CV

- Built an **IoT based interactive robot** that primarily detects and identifies a person, checks their temperature with a handshake and greets them with their name, implementing **Computer Vision** and **ML** approaches.

## Technical Skills

**Languages:** Python, Java, and C.

**Tools / Software:** Git, GitHub, Visual Studio.

**Libraries and Frameworks:** NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, NLTK.

**Databases and DBMS:** Oracle Database 10g Express Edition, MySQL.

**Fundamentals:** Prompt Engineering, ML, NLP, CV, Research methodology.

**Soft Skills:** Communication, Team-work, Analytical, Interpersonal, and Problem-solving.

## Courses and Certifications

- Hands-on approach to AI for real-world applications - IIT Kharagpur AI4ICPS November 2024
- Introduction to Cloud Computing - IBM February 2023
- Machine Learning Onramp - MathWorks September 2022

## Achievements

- Patent | Driver Assistant System** - Application Number: #202341076488
- Patent | Crop Monitoring with AI Based Autonomous Farm Rover** - Application Number: #202341038965
- Technical Paper | ICCCI 2024** - Hello, Humans! Welcome to Roboverse: An IoT Based Interactive Robot