

# Naren Medarametla

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[LinkedIn](#) | [GitHub](#) | [Scholar](#) | [Website](#)

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## WORK EXPERIENCE

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### Technocrats Robotics

*Programmer*

April 2024 – August 2025

Chennai, TN

- Programmed the mars rover for IRC (International Rover Challenge) 2025
- Programmed the basketball playing robots for Robocon 2025 and developed a localization algorithm

### Vellore Institute of Technology

*Research Intern*

May 2025 – July 2025

Chennai, TN

- Researched and developed a localization algorithm using neural networks

## EDUCATION

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### Vellore Institute of Technology (Chennai)

*Bachelor of Technology Computer Science*

Expected August, 2027

Chennai, Tamil Nadu

- 8.75/10 CGPA
- University Teaching Assistant for UCSC201P Operating Systems Fall 2025-26
- University Teaching Assistant for BACSE104 Structured and Object Oriented Programming Winter 2025-26

## PROJECTS

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- **Agribot:** An Autonomous Agricultural Robot capable of soil analysis, crop disease detection and sowing of seeds created to assist farmers in faraway regions and harsh temperatures. Reached the finals of the AgriTech Robo Challenge out of 410 teams and were given a spot at the ICDTSA 2024 conference exhibition.
- **Robosoccer:** Programmed two football playing robots controlled using DualShock controllers.
- **ImageProLib:** Implemented an edge detector using the Sobel operator in C utilizing multithreading
- **Data Distribution Service (DDS):** Implemented a publish-subscribe communication model based on the middleware used by ROS utilizing multicasting for transmission of packets to multiple nodes at the same time.
- **Ros-utils:** A list of utilities which enhance ROS development and graphical visualizer for analyzing data.

## PUBLICATIONS

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- [Real-Time Localization Framework for Autonomous Basketball Robots](#)  
N. Medarametla, S. Mondal  
arxiv preprint 2026

## SKILLS

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- **Languages:** Python, C++, Java
- **Technologies:** ROS2, RViz, Gazebo, Git, Docker, CMake, OpenCV, Pytorch, Numpy, Pandas, Flask

## VOLUNTEERING

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- IEE Robotics and Automation Society (VIT-Chennai)
- VITeath (NGO)

## CERTIFICATIONS

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- [International Rover Challenge 2025](#)
- [Supervised Machine Learning: Regression and Classification from Stanford Online and Deeplearning.AI](#)
- [Advanced Learning Algorithms from Stanford Online and Deeplearning.AI](#)