

SATHVIK MURARISHETTY

COMPUTER SCIENCE ENGINEERING

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EDUCATION

Bachelor of Technology - CSE 2021 - 2025
Manipal Institute of Technology Bengaluru (CGPA - 8.7)

PROFESSIONAL EXPERIENCE

Data Science Intern, Arya.ai Jan 2025 - April 2025

- Worked with Machine Learning and Deep Learning models and the FastAPI framework to design and deploy scalable, high-performance applications.
- Contributed to building and optimizing data-driven solutions, ensuring seamless integration and improved system performance.

Machine Learning Intern, DRDO Jun 2024 - Jul 2024

- Developed and integrated Large Language Models (LLMs) within ROS nodes to enhance robotic functionalities.
- Implemented communication protocols for seamless interaction between LLMs and ROS nodes.

IT Intern, Dream Ambassadors Nov 2023 - Dec 2023

- Worked closely with the IT team to address and resolve technical challenges, providing technical assistance and support for various projects.

IT & Design Intern, VONG March 2023 - April 2023

- Assisted in website upkeep, collaborating with the web development team, and created visually appealing graphics using Adobe Creative Suite and other design tools.

PROJECTS & RESEARCH

Voice Enabled Modular Multi-Agent Finance Assistant with LLM Orchestration

Using Python, LLM, FastAPI, RAG, MCP, TTS/STT, Streamlit

Integration of LLMs with ROS for Enhanced Robotic Functionality

Using ROS, Python, Transformers, Hugging Face, Shell Scripting

Laundry Service Database Management

Using HTML, CSS, MySQL and PHP

College Prediction Android App

Using Kotlin, Android Studio, ML Kit, Scikit-learn, Firebase

Archetype-Based Learning Game Suite Website

Using Next.js, TypeScript

Research: Improving Vision Transformer Interpretability Using Self-Attention Mechanisms

Using Python, PyTorch, Vision Transformer, Grad-CAM, Captum

SKILLS

Programming Languages: Python, C, Java, Kotlin, Go, JavaScript (Next.js, Node.js)

Tools and Technologies: Git, Docker, Linux, Azure, ROS, Machine Learning, SQL/NoSQL Databases

ADDITIONAL INFORMATION

Certifications: Microsoft Certified: Azure Data Scientist Associate, SQL for Data Science, Machine Learning A-Z