

SANTHOSH KUMAR M

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Valliyur, Tirunelveli, Tamil Nadu, India

Objective

AI and Data Science graduate skilled in neural networks, deep learning, and AI model development. Seeking to contribute to AI-driven solutions in a forward-thinking company.

Experience

ISRO Telemetry, Tracking and Command Network (ISTRAC)

Project Engineer Intern

Dec 2024 - Jan 2025 | Bengaluru, Karnataka

Developed a comprehensive web-based "Shift Status Logger" application for mission-critical operations. Implemented responsive frontend using HTML, CSS, and JavaScript with FastAPI backend and MySQL database. Designed and deployed a scalable solution for real-time tracking and management of operational data.

National Remote Sensing Centre (NRSC), ISRO

AI Modeling Intern

July 2024 - August 2024 | Hyderabad, Telangana

Engineered an AI-enhanced agricultural machinery system for automated seeding, ploughing, and pathing. Developed machine learning models for precision agriculture applications and crop yield optimization. Collaborated with NRSC scientists to implement and test advanced remote sensing techniques.

ISRO Propulsion Complex (IPRC)

Technical Intern

February 2024 | Mahendragiri, Tamil Nadu

Received specialized training in instrumentation systems at the Cryo Subsystem Test Facility. Analyzed test data using MATLAB for system identification modeling of control valves. Achieved "Excellent" performance rating for technical competence and professional conduct.

Education

P.S.R Engineering College

B.Tech in Artificial Intelligence and Data Science

2022 - 2026 | Sivakasi, Tamil Nadu

CGPA: 7.51/10

S.A.V Balakrishna Sr. Sec. School

HSC 2022 | Valliyur, Tamil Nadu

Skills

- **Programming:** Python, C, Java, MySQL
- **Technologies:** MATLAB, Power BI, AI, Machine Learning, FastAPI, Git
- **Certifications:** ChatGPT for Everyone, AI Modeling, Introduction to Machine Learning in NPTEL

Projects

AI in Organic Farming

Developed an AI tool that detects plant diseases and predicts crop yields with high accuracy. Implemented computer vision and machine learning algorithms for agricultural applications.

Space Chat

Created an educational chatbot providing space science resources for students. Designed intuitive user interface with personalized learning recommendations.

Dataset Correlation Analysis Dashboard

Built an interactive dashboard visualizing correlations across complex datasets. Implemented statistical analysis tools for data-driven decision making.

Achievements

- Received Rs.7,500 grant from TNSCST for AI project innovation
- 2nd Prize in Gen Next Hackathon 2024, Dhatchan Academy
- 1st Prize in Paper Presentation, ISTE Competition