Venu Prasad M

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Executive summary

AI & Machine Learning student currently building a strong technical foundation through academic research and collaborative projects. As a dedicated beginner in the field, I have gained hands-on experience in predictive modeling and SLAM-based robotics. I am a published researcher committed to continuous learning and refining my skills to meet industry standards. My goal is to contribute effectively to a professional team while evolving into a high-impact AI specialist.

Technical Skills

- **Languages:** Python,C.
- **AI/ML:** Machine Learning, Generative AI, Large Language Models (LLMs), Retrieval-Augmented Generation(RAG), Prompt Engineering.
- **Tools & Libraries:** Scikit-learn, Pandas, NumPy, Matplotlib, TensorFlow.
- **Development Tools:** Jupyter Notebook, Git & GitHub, VS Code.

Education

BE in Artificial Intelligence & Machine Learning, Sri Sairam College of Engineering(2023 – 2027).

- **CGPA**: 7.745 [five semesters]
- **Coursework:** Artificial Intelligence, Data Structures and Algorithms, Database Management Systems, Python Programming.

Publications

AgriXion: The Self Aware Farming Entity | International Journal of Innovative Research in Information Security (IJIRIS) | Vol. 11, Issue 09, Nov 2025. Co-authored research on the integration of autonomous navigation and self-aware diagnostic systems for precision agriculture.

DOI : 10.26562/ijiris.2025.v1109.17

Technical Projects

Atmosphere Pro | AI-Based AQI Forecasting System

- Developed an end-to-end AQI prediction system using Random Forest, achieving a validated 81% R^2 score.
- Engineered the data preprocessing pipeline and managed model serialization to ensure reliable multi-city predictions.
- Created an interactive frontend dashboard to visualize real-time air quality insights and historical trends.

AGRIXION | AI-Powered Autonomous Farming Robot

- Engineered a prototype for an autonomous robot using SLAM (Simultaneous Localization and Mapping) for pathfinding.
- Implemented ML-based soil nutrient prediction algorithms to enable automated precision fertilization.
- Integrated an IoT dashboard to visualize real-time sensor data and monitor system health remotely.

Certifications

Celonis : Academic Process Mining Fundamentals.

Infosys Springboard : Applied Generative AI, Cyber security Foundation.

IBM : Artificial Intelligence Fundamentals.

Deloitte : Data Analytics Job Simulation.