

Kuricheti Prerana

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📍 Coimbatore

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🐙 Github

CAREER OBJECTIVE

AI engineering student passionate development, automation, and designing efficient AI-driven workflows for real-world applications, including emerging agent-based systems. Continuously learning and adapting to new AI trends, with strong ownership in fast-paced, product-focused environments.

EDUCATION

B.Tech, Artificial Intelligence,

Amrita Vishwa Vidyapeetham

2023 – 2027 | Coimbatore

CGPA: 9.06/10

TECHNICAL SKILLS

Programming

- Python, C++, C, JavaScript, Scala

AI / ML

- Machine Learning, Deep Learning
- Multimodal AI (image + text)
- Computer Vision & Image Processing
- Signal Processing
- Remote Sensing

NLP / GenAI

- LLM API Integration
- RAG Pipelines
- Prompt Engineering
- Vector DBs
- LangChain, CrewAI
- MCP & Multi Agent Orchestration

Databases / Tools

- PostgreSQL, MySQL
- MongoDB

Development & Deployment Tools

- Git&GitHub
- FastAPI/Streamlit/APIs
- MLOps & DevOps
- Cloud Computing & Docker

AI Tools

- ChatGPT/Claude/Copilot
- Figma/Blink/Zapier AI

PROJECTS

VioletAI – Stock Research Copilot

02/2026 – 03/2026

Built a multi-agent AI system for automated equity research using LLMs, RAG, sentiment analysis, and forecasting to generate explainable insights with real-time dashboards.

AI Startup Idea Validation Agent

02/2026 – 03/2026

Developed an AI agent that evaluates startup ideas by performing automated market research, competitor analysis, and feasibility scoring using LLM-based reasoning.

Hinglish Sentiment Analysis for Indian Election Tweets

12/2026 – 03/2026

Built a Hinglish language model for sentiment/text classification using NLP and MuRIL based transformer architectures.

Orion – LLM-Powered Intelligent Assistant

07/2025 – 12/2025

Developed an LLM-based RAG system for accurate document-grounded Q&A using chunking, embeddings, semantic search, and OCR for PDFs.

RSMA Based UAN Channel Modelling for Coral Reef Monitoring empowered through ML Techniques

03/2025 – 05/2025

Developed an autoencoder-based embedding pipeline with deep learning and Random Forest to generate confidence-weighted rankings, evaluated using analytical and Monte Carlo simulations.

PUBLICATIONS

Kuricheti Prerana, et al. “Automated Crop Health Monitoring using NDVI and Machine Learning Techniques.” Accepted and Presented at the International Society for Photogrammetry and Remote Sensing (ISPRS) Conference, 2025.

Kuricheti Prerana, et al. “Investigation of EEGNet and its Variants for ADHD Detection.” Presented at **ICBSII 2025**, Chennai.