

SREESHANTH RYALI

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EDUCATION

SASTRA DEEMED UNIVERSITY

2023 – 2027

B.Tech Artificial Intelligence & Robotics - CGPA - 8.28 (After 5th semester)

Thanjavur, Tamil Nadu

INTERNSHIP

Early Technovations

Sep 2024 – Nov 2024

AI Intern

Remote

- Built an **automated gait analysis reporting system**, reducing neurologist diagnosis time by **~60%**.
- Engineered **data preprocessing pipelines** for multi-sensor gait time-series data, including cleaning, normalization, and feature extraction.
- Applied **unsupervised learning** (PCA, clustering) to identify gait pattern anomalies correlated with early Parkinson's disease indicators.

PROJECTS

SentinelFinance | Python, FastAPI, LangGraph, FAISS

- Designed a **multi-agent financial reasoning system** (Router, Researcher, Analyst) using **LangGraph** to process user financial documents (PDF/Excel/CSV) and generate personalized insights.
- Built a **sandboxed Python computation engine** to execute financial calculations (EMI, tax, ROI), **eliminating LLM arithmetic hallucinations** and ensuring deterministic outputs.
- Implemented **Agentic RAG** with **per-user FAISS vector stores** and integrated **real-time market data APIs** (Tavily, yfinance) for context-aware financial decision support.
- Engineered a **full-stack backend** using **FastAPI + MySQL** with user authentication, session-based chat memory, and **per-user document storage with automated financial data extraction**.

Nexa |AI Personal Assistant | Python, FastAPI, LangChain, LangGraph

- Developed a **ReAct-based AI agent** capable of orchestrating web search, Google Calendar, and Gmail actions through natural language using **LangGraph workflows**.
- Designed a **dual-LLM verification pipeline** (generator + reviewer) to cross-check responses against source data, **reducing hallucinations via iterative refinement**.
- Built an interactive **chat interface with reasoning trace visualization**, exposing agent decision flow, tool usage, and LLM-to-LLM critique for transparency.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript

Core CS: Data Structures & Algorithms, OOP, DBMS, Computer Networks

Machine Learning: TensorFlow, scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

Backend & Databases: FastAPI, Flask, Node.js, Express, REST APIs, MySQL, MongoDB

Tools: Git/GitHub, Linux (WSL), Postman, AWS



POSITIONS OF RESPONSIBILITY

- **Coordinator**, SALVO, The AI Club, SASTRA
- **Head**, University Chess Team

ACHIEVEMENTS

- SIH'24 **Top 50** in University
- Solved **700+ problems** on LeetCode | Rating: **1717**
- CUET Computer Science - **99.13 percentile**
- Rated **2450+** on Lichess, **2250+** on Chess.com (**~99.9 percentile**)

CERTIFICATIONS

- DeepLearning.AI **TensorFlow Developer** 
- **Machine Learning A-Z** 
- The **Web Developer** Course by Colt Steele 