




JAIRUS RAJ SINGH S

PROFILE

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AI/ML enthusiast with hands-on experience using LLMs (Mistral, LLaMA, Deepseek, GPT-3.5). Skilled in Python, LangChain, and Docker. Familiar with Scikit-learn, TensorFlow, and MLOps basics. Interested in NLP, model deployment, and real-world AI applications.

EDUCATION

B.E. Computer Science Engineering – Sri Krishna College of Technology, Coimbatore

- **Focus:** Artificial Intelligence, Machine Learning, Data Science
- **Schooling:** Rose Mary Matriculation Higher Secondary School, Tirunelveli (93.33%)

Year: 2023–Present

INTERNSHIPS & EXPERIENCES

Data Science Intern – CodSoft

- Developed ML models for Titanic Survival Analysis, Movie Rating Prediction, and Sales Forecasting using Python, Scikit-learn, Matplotlib, and Seaborn.

Duration: Dec 2024–Jan 2025

Data Science Intern – Teachnook & Coratia Technologies

- Built data science solutions using Python, NumPy, and Pandas, focusing on ML concepts.
- Conducted data visualization to identify trends and improve decision-making.

Duration: Aug 2024–Sep 2024

Member – IEEE & IEEE Computer Society

- Engaged in AI, ML, and tech events, contributing to professional development.

Duration: Feb 2025–Present

PROJECTS

AI-Powered Emotional Companion Chatbot (AI Engineer, Generative AI)

- **Technologies:** Python, LangChain, Ollama (Mistral:7B), NLP
- Designed an LLM-based emotional chatbot recognizing 27 emotions with real-time sentiment analysis.
- Integrated FastAPI & Ollama to enable low-latency responses.

Personalized Educational Platform with AI Twin Mentor (AI/ML Engineer, Data Science)

- **Technologies:** Ollama (LLaMA 3), OpenAI API
- Developed an AI-driven platform for personalized study plans using ML; integrated Ollama for an AI Twin Mentor.

DeepSeek R1:5b Model Deployment

- **Technologies:** Docker, Ollama
- Deployed DeepSeek R1.5B model using containerization (Docker) for scalable AI solutions.

ACHIEVEMENTS

- Led Team **Spark Z** in **SMARTATHON 2025** by IEEE IAS Madras Chapter & L&T, focusing on **Revolutionizing Education System with AI** (2025)
- Led Team **Sparks** to develop an **AI-Powered Emotional Companion Chatbot** at **AI Innovate Hackathon, Thiran2k25** (2025)
- Led Team **Brain Sparks** in **Neo Hacksprint** Hackathon by iamneo, building a **Fraud Detection System using ML** (2024)
- Secured **7th place** in **HACKMASTER** Intra-College Codeathon at SKCT among 100+ participants (2024)

CERTIFICATIONS

- Machine Learning with Python [coursera] (2025)
- What is Data Science? [coursera] (2025)
- Python for Data Science, AI & Development [coursera] (2025)
- Microsoft Azure AI Fundamentals: AI Overview(2025)
- Fundamentals of machine learning(Microsoft)
- Design And Analysis Of Algorithms(Iamneo)
- MLOps Fundamentals(GreatLearning)
- Wheels on Bot Robotics Course by SKCT (2023)

TECHNICAL SKILLS

- Languages: Python, Java, SQL
- Tools: Docker, Ollama, Scikit-learn, Matplotlib, Stripe API, TensorFlow
- Technologies/Frameworks: FastAPI, LangChain, NLP, OpenAI API, MongoDB, Spring Boot
- Cloud & DevOps: AWS, GitHub Actions, CI/CD.