

JAIRUS RAJ SINGH S

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PROFILE



Linkedin



Github

AI/ML enthusiast with hands-on experience using LLMs (Mistral, LLaMA, Deepseek, GPT-3.5). Skilled in Python, LangChain, Docker, and familiar with Scikit-learn and cloud-based MLOps workflows. Interested in NLP, deployment, and building real-world AI systems. Not just into theories—I'm here to build, break, and learn by doing. Looking for opportunities where ideas meet execution.

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 using Matplotlib and Seaborn to identify trends and improve decision-making.

Duration: Aug 2024–Sep 2024

PROJECTS

AI-Powered Emotional Chatbot Companion

- Built an AI-powered chatbot API with FastAPI, LangChain, and Mistral LLM for emotional responses.
- Integrated emotion detection using transformers pipeline and LangChain for personalized, context-aware interactions based on sentiment.
- Utilized Pydantic for data validation and CORS middleware to ensure secure communication and performance.

CareerZync-ATS – Smart Resume Optimizer

- Parsed resumes with PyMuPDF; analyzed compatibility with Google Gemini API for ATS optimization.
- Built RAG-based chatbot using LangChain, FAISS, Sentence Transformers to deliver resume insights.
- Generated ATS skill gap reports and improvement tips using Gemini, enhancing resume effectiveness.

DeepSeek R1:1.5b Model Deployment

- Deployed DeepSeek R1.5B model using Docker (jruzz0122/deepseek-r1-ollama), enabling 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)
- AWS Cloud Practitioner Essentials
- Developing Machine Learning Solutions(AWS)
- Design And Analysis Of Algorithms(iamneo)
- Microsoft Azure AI Fundamentals: AI Overview
- Wheels on Bot Robotics Course by SKCT

TECHNICAL SKILLS

- **Languages:** Python, Java, SQL
- **Libraries:** Pandas, Scikit-learn, Matplotlib, FAISS, Sentence Transformers, Hugging Face Transformers
- **Technologies/Frameworks:** FastAPI, LangChain, RAG, NLP, OpenAI API, MongoDB, Spring Boot, Gemini API
- **Tools:** Docker, Ollama, Postman, ThunderClient, VS Code, Git
- **Cloud & DevOps:** AWS, GitHub Actions, CI/CD, AWS CodePipeline, SageMaker Pipelines
- **Platforms:** GitHub, AWS SageMaker, SageMaker Model Monitor, Jupyter Notebooks, Google Colab