

John Shajan

johnshajan77@gmail.com | LinkedIn | Github | Portfolio

PROFESSIONAL SUMMARY

Software Engineer – AI/ML with hands-on experience in building and deploying ML models for real-world applications. Skilled in forecasting, classification, and anomaly detection. Proficient in Python, MLOps, and Azure, with a strong focus on delivering scalable AI solutions.

SKILLS

Technical Skills:

- **Languages & Tools:** Python, SQL, Flask, Streamlit, React.js
- **Machine Learning:** Scikit-learn, TensorFlow, XGBoost, LightGBM, Forecasting, Clustering, Anomaly Detection
- **MLOps & Deployment:** Docker, Kubernetes, Azure DevOps, Git, Model APIs
- **Cloud & Infrastructure:** Azure (proficient)
- **Data:** Structured & Semi-structured data, Data Cleaning, Feature Engineering
- **GenAI & NLP:** LangChain, Hugging Face, RAG Pipelines, LLMs (GPT, LLaMA, Falcon)
- **Visualization & Reporting:** Matplotlib, Seaborn, Power BI
- **Vector Databases:** Pinecone, Qdrant, LlamaIndex

Soft Skills:

Communication, Teamwork, Problem-Solving, Adaptability, Leadership

EXPERIENCE

Jr. Software Engineer

06/2024 – present | Kochi, India

Zealogs IT Solutions

- Built ML models for document classification and anomaly detection used in HR and risk management systems.
- Developed forecasting pipelines to support operations analytics using time-series modeling and ML algorithms.
- Developed image classification and text analysis models using TensorFlow and fine-tuned deep learning architectures for enterprise tasks.
- Integrated RAG pipelines and LLM agents using LangChain, Qdrant, and Flask for intelligent document Q&A systems.
- Collaborated with product owners, analysts, and DevOps teams to align AI deliverables with business goals and ensured robust performance monitoring.

PROJECTS

Conversational AI Agent (RAG + LLMs)

- Developed a real-time document QA chatbot using **LlamaIndex**, **Qdrant**, **LangChain**, and **Flask**, enabling scalable integration of GenAI into enterprise workflows.

Retail Sales Data Analysis

- Applied time-series models and ML techniques to forecast demand trends from structured retail data.
- Implemented feature engineering and model selection techniques to optimize predictive accuracy.

Anomaly Detection for Enterprise Logs

- Created ML pipeline to detect unusual activity in large-scale operational data.
- Employed unsupervised and supervised approaches for pattern recognition and alert systems.

EDUCATION

Bachelor of Technology in Computer Science

2020 – 2024 | Thrissur, India

Sahrdaya College of Engineering & Technology

Academic Achievements :

- **CGPA:** 8.18
- **Paper Published (IEEE):** Final project presented at MIT ADT Conference (2024) — demonstrated AI application in document intelligence.

CERTIFICATES

- Machine Learning with Python – IBM (Coursera)
- Prompt Engineering – Dubai 1 Million Prompts Initiative