Mohammed Sufiyan S

007sufiyanmd@gmail.com | +91 9597370910 | Vaniyambadi, TN, India

linkedin.com/in/mohammedsufiyan-s | github.com/Mohammed-Sufiyan | fastfol.io/mdsufiyan

Summary

AI/ML and Software Developer with 1+ year of experience building Generative AI applications, LLM chatbots, RAG pipelines and computer vision systems, plus full-stack products with Python, FastAPI and React.

Technical Skills

Languages: Python, SQL, JavaScript

Generative AI & LLMs: Generative AI, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), AI Agents, Multi-Agent Systems, Prompt Engineering, OpenAI API, Anthropic API, LangChain, Hugging Face Transformers, Embeddings, Semantic Search, Vector Databases, RAGAS

Computer Vision: Object Detection, Image Classification, OCR (Tesseract), YOLOv5/v8, OpenCV, DeepFace, ONNX Runtime, Edge AI

Machine Learning & NLP: Machine Learning, Deep Learning, Natural Language Processing (NLP), Regression, Classification, Random Forest, XGBoost, Feature Engineering, scikit-learn, PyTorch, Pandas, Model Evaluation

Backend & Web: FastAPI, Flask, Django, REST APIs, React.js, Google Sheets API

Databases & Cloud: MongoDB, MySQL, Pinecone, Google Cloud Platform (GCP), Vertex AI Vector Search

Tools: Docker, Linux, Nginx, Git

Experience

DFX Solutions *(3-Months contract) Remote*

Software Developer *Aug 2026 – Oct 2026*

- Built a gold billing system for jewellers covering GST invoices, weight, purity, making charges, old gold exchange and stock used by 39 shops.
- Designed customer savings schemes (for example monthly gold savings plans) with automatic installment tracking, reminders and maturity calculation.
- Developed customer ledger, reports, PDF bill printing, user roles using Python, FastAPI, React, MySQL, which reduced manual billing time by about 60%.
- Owned the product from requirements to deployment, working directly with the client on features and fixes.

Alphabit Technologies *Chennai, India (Hybrid)*

Software Developer *Jun 2025 – May 2026*

- **E-commerce Help Assistant:** Built and deployed an LLM chatbot with Hugging Face and FastAPI for product search; **cut average query resolution time by 45%**.
- **Retail People Analytics:** Built a real-time CCTV pipeline (OpenCV, DeepFace, YOLO) to track people and analyse demographics; **under 120 ms per frame**; daily reports automated.
- **ISBN Scanner:** Built a barcode and OCR scanner (FastAPI, React, Google Sheets API); **reduced manual entry time by 80% with 97% accuracy**.
- **Waste Segregation System:** Trained a custom YOLOv8 model on 2,000+ self-labelled images (**91% accuracy**) and deployed it on Raspberry Pi using ONNX Runtime.

Projects

Injury Time – Transfer Value & Match Predictor | *Python, Pandas, scikit-learn, XGBoost, Matplotlib*

- Collected multi-season player stats from the football-data.org API and trained a **Linear Regression** model to predict player transfer value from goals, assists, minutes played, age and position.
- Built a **Random Forest / XGBoost** model on historic Premier League data to predict whether a team will win, draw or lose its next match, using features such as goals scored and conceded, shots, possession, home advantage and recent form.

Multi-Agent RAG Orchestration Framework | *FastAPI, LangChain, Pinecone, GCP*

- Built a RAG system that routes each question to the right specialised AI agent; works with OpenAI GPT-4 and open-source models, with Pinecone and GCP vector backends.
- Evaluated answer quality using RAGAS metrics (faithfulness and answer relevancy) to guide improvements.

AI-Powered Career Visualizer | *Python, Django, React.js, D3.js*

- Built a career recommendation platform that matches users to career paths using sentence-transformer embeddings, with LLM-generated insights and interactive D3.js career maps.

Education

C. Abdul Hakeem College of Engineering and Technology 2021 – 2025

B.Tech in Information Technology, CGPA: 8.1/10 *Tamil Nadu, India*