

MUHAMMED SHAHIQ A R

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Summary

AI/ML Engineer experienced in developing **LLM-based systems**, **RAG pipelines**, and **computer vision models**. Skilled in **Python**, **deep learning**, **NLP**, and integrating AI solutions through efficient backend workflows. Strong in **model evaluation**, and collaborating with **R&D** teams to enhance performance and reliability.

Experience

Artificial Intelligence (R&D) Intern
Zoftcares Solutions LLP

Feb 2025 – Aug 2025

LLM-Powered Chatbot (RAG + LLM Evaluation)

- Built a **RAG-based retrieval pipeline** using LangChain for accurate and relevant context fetching.
- Evaluated multiple **LLMs** (Ollama, HF Models, Bedrock) and optimized prompts for consistent outputs.
- Implemented **controlled retrieval logic**, safety filters, and domain-specific rule enforcement.
- Integrated the entire workflow with **FastAPI** for production-ready API deployment.

Computer Vision Safety System (YOLO + OpenCV)

- Developed a **real-time hazard detection system** using YOLO and OpenCV.
- Compared YOLO variants, reduced false positives, and improved dataset annotation quality.
- Assisted in continuous **model evaluation**, monitoring, and iteration with the R&D team.

Projects

RAG-based Chatbot (LangChain, ChromaDB)

- Built a **modular RAG system** with Gemini Flash, MiniLM embeddings, and ChromaDB.
- Designed **deterministic retrieval flows** and safe fallback logic using RunnableLambda.
- Applied strict prompt templates and output parsing to minimize hallucinations.

Voicemail Prioritization System (NLP + Audio)

- Developed an **AI pipeline** for transcription, sentiment analysis, and urgency scoring.
- Implemented **PII-safe processing** and automated ingestion via Twilio APIs.
- Built a **Streamlit dashboard** for real-time voicemail insights.

Human Violence Detection (YOLO + OpenCV)

- Built a **real-time detection model** achieving **90% accuracy**.
- Implemented scalable pipelines for evaluation, alerts, and deployment.

Skills

Languages: Python, R, SQL, C

Libraries/Frameworks: NumPy, Pandas, Scikit-learn, PyTorch, TensorFlow, OpenCV, SpaCy, Hugging Face Transformers, FastAPI, LangChain, RAG

Specializations: Machine Learning, Deep Learning, NLP, Computer Vision, Large Language Models (LLMs), Data Preprocessing & Feature Engineering, Model Deployment.

Education

B.Tech in Artificial Intelligence and Data Science

2021 – 2025

MES College of Engineering, Kuttippuram, Kerala

Relevant Coursework: Data Science, Java, Operating Systems, DSA, Machine Learning, Deep Learning, Blockchain

Higher Secondary Education

2019 – 2021

NGO Quarters HSS, Kozhikode, Kerala

CGPA: 9.2/10