

Ahmed Farooq

AI / Machine Learning Engineer

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SUMMARY

AI engineer with 2+ years of hands-on AI/ML experience building production LLM, RAG, NLP, and computer vision systems. Engineering experience spans retrieval, data pipelines, asynchronous services, and backend systems processing millions of records.

EXPERIENCE

Rev9 Solutions Feb 2025 – Present
AI Engineer / Software Engineer Pakistan

- Architected a Go synchronization engine for **70+ CRM accounts**, processing millions of records within third-party API rate limits; delivered Smartlistzero analytics across approximately **5 million contacts**.
- Reduced critical production database query latency from **3 minutes to 8 seconds** through database workload optimization.
- Built Trevy’s **LLM-powered CRM workflows**, constructing grounded context from customer profiles, behavioral data, and lead status to generate personalized nurturing and follow-up content.
- Developed **skin-tone and undertone detection** pipelines, including a custom Monk Skin Tone detection system and an image dataset pipeline for preprocessing, normalization, and model-ready data generation.
- Built asynchronous, event-driven services using Go, NestJS, Redis, BullMQ, MongoDB, PostgreSQL, and Docker.

Instech Mar 2026 – Jul 2026
AI Engineer (Part-time) Remote

- Developed a production **RAG system over 100,000+ legal files**, implementing document ingestion, chunking, embeddings, retrieval, context construction, and LLM generation.
- Designed retrieval and grounding strategies around source relevance, context-window utilization, latency, and minimizing unsupported responses; integrated the pipeline into the client’s application.

Freelance 2020 – Present
Machine Learning & AI Engineer Remote

- Built custom **NLP classifiers for harmful and biased language**; owned dataset preparation, preprocessing, model training, evaluation, inference, and production integration.
- Developed **BAMF.AI**, a personalized AI photoshoot platform; integrated Astria AI and Replicate for model training and image generation with asynchronous processing for long-running AI jobs.

TECHNICAL SKILLS

Languages: Python, Go, TypeScript, JavaScript, SQL
AI / ML: RAG, LLM grounding, embeddings, vector search, LangChain, LangGraph, NLP, text classification, computer vision, dataset engineering, model evaluation
Backend / Data: NestJS, Node.js, Express, REST APIs, BullMQ, PostgreSQL, MongoDB, Redis, Pinecone, microservices, event-driven systems
Cloud / Tools: AWS, GCP, Oracle Cloud, Docker, Linux, Git

EDUCATION

National University of Sciences and Technology (NUST–SEECS) 2026 – Present
M.S. Computer Science
Mirpur University of Science and Technology (MUST) 2020 – 2024
B.S. Electrical Engineering