

Dawood Ayoob Shiekh

AI/ML ENGINEER

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SUMMARY

Innovative AI/ML Engineer with hands-on experience in building, deploying, and scaling machine learning and deep learning models in production environments. Proficient in NLP, LLMs, and RAG systems using tools like Hugging Face, LangChain, and FAISS. Strong backend skills with FastAPI, MongoDB, and REST API design. Experienced in MLOps pipelines, CI/CD, model fine-tuning, and scalable cloud-based deployments (AWS/GCP). Proven ability to lead AI projects from ideation to deployment, with a focus on robust, low-latency systems and impactful user experiences.

WORK EXPERIENCE

AI/ML Engineer

08/2024 – Present

AseefIT holding Co.

- Developed and deployed end-to-end NLP pipelines using Hugging Face & LangChain, powering retrieval-augmented generation systems with a 35% improvement in query relevance accuracy.
- Fine-tuned transformer models using TensorFlow and PyTorch, increasing performance on downstream NLP tasks by 40% (F1 score).
- Created scalable RESTful APIs using FastAPI, achieving sub-200ms response time for live AI inference endpoints.
- Automated CI/CD pipelines using GitHub Actions and Docker, reducing deployment cycle time by 60% and minimizing model downtime.
- Built Generative AI-driven prompt-based interfaces, boosting user engagement by 25% in internal testing scenarios.
- Optimized training and inference workflows, cutting resource usage by 30% through model quantization and batch processing.
- Engineered semantic search using FAISS with document embeddings, enhancing retrieval precision by 45% in QA tasks.
- Led version-controlled ML projects with Git and proper documentation, supporting team onboarding and model reproducibility.

PROJECTS

Smart Attendance System

Face & Location-Based Attendance Tracker

- Built a FastAPI-powered backend system enabling real-time attendance tracking using facial recognition and GPS verification.
- Designed secure APIs for check-in and check-out functionality, merged with MongoDB and image-based user authentication.
- Applied admin dashboards and role-based access control, supporting analytics, daily summaries, and exportable reports.
- Optimized image and location verification utilities for consistent performance across desktop and mobile platforms.

Al Qur'an Translator

Multilingual Qur'anic Translation System

- Developed an AI-based translation system using Hugging Face Transformers and M2M100, translating Qur'anic verses from Classical Arabic to English, Hindi, and Chinese.
- Fine-tuned pretrained multilingual models with PEFT for domain-specific accuracy, ensuring semantic and spiritual integrity in output.
- Applied a Fast-API-based backend for translation APIs, designed to serve high-volume queries with minimal latency.
- Integrated context-aware prompting and preprocessing pipelines to handle complex Qur'anic structures.

Voxify

AI-Powered Video-to-Text, Translation & Conversational Insight Platform

- Built a Streamlit application that extracts audio from YouTube videos, transcribes it using Faster-Whisper, and automatically censors profanity for clean transcripts.

- Implemented semantic search with FAISS and Hugging Face embeddings, enabling context-aware question answering on video transcripts through Groq's LLMs.
- Integrated multilingual support with translation pipelines (English → Hindi, Urdu) and gTTS-based text-to-speech, providing transcript downloads and audio playback.
- Designed end-to-end workflow including video processing, transcript chunking, real-time Q&A, and exportable reports for cross-lingual accessibility.

SKILLS

Languages & Tools

Python, SQL, Git

Technologies

FastAPI, Streamlit, MongoDB, REST APIs, FAISS, OpenCV, Jupyter

DevOps & Cloud

CI/CD, Docker, GitHub Actions, AWS

Libraries/Frameworks

Hugging Face, LangChain, TensorFlow, PyTorch, Pandas, NumPy, Scikit-learn, Langgraph, CrewAI

AI\ML Areas

NLP, LLMs, Generative AI, RAG, Agentic AI, ML/DL, Transformers, MCP

Other

AI Prompt Engineering, PEFT, LoRa, Version Control

EDUCATION

Bachelor of Engineering (CSE)

TOCE, Bangalore

CGPA: 7.16

11/2020 – 06/2024

Bangalore

WEBSITES AND LINKS

LinkedIn [↗](#)

GitHub [↗](#)

Portfolio [↗](#)