

ARSALAN SHAIKH

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PROFILE

Data Scientist skilled in fine-tuning OpenAI and Gemini models, MLOps, generative AI, and applied ML across domains like medical imaging and financial analytics, focused on scalable and production-ready AI solutions.

EXPERIENCE

Software Engineer Intern (Remote) | Dictation Daddy Sep 2025 - Present

- Fine-tuned **OpenAI Whisper Large** for domain-specific transcription, improving accuracy in production.
- Optimized inference pipeline, reducing **latency by 40%+** (1s → 600ms) for near real-time response.
- Deployed scalable APIs with monitoring, logging, and fault-tolerance for reliable integration.
- Integrated **Gemini 1.5 LLM** to deliver adaptive text formatting (formal/informal) based on context.

Machine Learning Intern (Remote) | Infosys Springboard Oct - Dec 2024

- Developed and optimized a CNN model for Iris Eye Tumor Detection, achieving 92% accuracy.
- Processed and augmented 10K+ images, improving model reliability and reducing false positives by 18%.
- Built a scalable, real-time diagnosis pipeline with full project documentation and CI/CD integration.

PROJECTS

Ai Hybrid Chatbot ([Demo](#)) Aug - Sep 2025

- Built a hybrid AI chatbot combining **Groq LLM (Llama-3.1)** with a **knowledge-base** retriever for real-time.
- Achieved **< 0.8s latency** and improved **retrieval accuracy** using advanced **exact, fuzzy, and keyword search strategies**.
- Deployed a **scalable production-ready** solution via Flask REST APIs on **Render**, ensuring high availability and rapid response.

Aimers – AI Interview Platform ([Demo](#)) Jan - Mar 2025

- Developed an **AI-powered interview platform** for **semantic answer evaluation**, personalized feedback, and **topic-wise recommendations**.
- Built a **BERT-based evaluator (90%+ expert-score alignment)** with a **TF-IDF + cosine-similarity recommender** improving relevance by **40%**.
- **Optimized FastAPI backend** (1.2 s → 0.3 s latency) and ensured reproducibility with **MLflow & DVC**.

SKILLS

- **Data Science / ML / DL** : Regression, Classification, Clustering, Ensemble Methods, PCA, CNN, Model Tuning, Neural Networks, RNN/LSTM/GRU, Feature Engineering
- **Gen Ai**: Groq LLM (Llama), Gemini 1.5, OpenAI GPT APIs, Hugging Face Transformers, LangChain, OpenAI Whisper-Large (ASR), RAG pipelines , Prompt Engineering .
- **NLP**: Text Preprocessing, Tokenization, Word2Vec, BERT, NLTK, spaCy, Text Classification
- **Data Analysis & Visualization**: EDA, Matplotlib, Seaborn, Power BI, SQL (MySQL), NoSQL (MongoDB)
- **Programming & Frameworks**: Python (NumPy, Pandas, SciPy, Scikit-Learn, TensorFlow, Keras, PyTorch, FastAPI), React
- **MLOps & Deployment**: CI/CD, Docker, MLflow, DVC, Render, Netlify, Git/GitHub

EDUCATION

B.Tech in Artificial Intelligence & Data Science 2021 - 2025
Marathwada Institute of Technology, Aurangabad