

FAIZAL SHAIKH

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SUMMARY

Final-year B.E. (CS – AI & ML) student and National SIH 2025 Winner with hands-on experience in deep learning, LLM integration, and full-stack AI deployment. Seeking an AI Engineer fresher role to build production-ready intelligent systems.

EDUCATION

Theem College of Engineering – University of Mumbai

B.E. in Computer Science – AI & ML Specialization

Boisar, Maharashtra

CGPA: 8.22 / 10 Nov 2022 – Jun 2026

TECHNICAL SKILLS

Languages & Frameworks: Python, TensorFlow, Keras, Scikit-learn, OpenCV, spaCy, FastAPI, Streamlit, React (TypeScript)

Generative AI & LLMs: Google Gemini API, Groq LLaMA 3, Prompt Engineering, LLM Integration & Evaluation

AI Video & Content Tools: OpusClip, Canva, Notion

Data & Cloud: Pandas, NumPy, PostgreSQL, AWS, GCP, IBM Cloud, Docker, Git, Feature Engineering

Certifications: AWS – Data Engineering · NVIDIA – Disaster Risk Monitoring (Jan 2025) · IBM – AI Fundamentals & AI-Enabled Applications · Google Cloud Skills Arcade (Dec 2025) · Shell India/Edunet – Green Skills & AI (Mar 2025) · Kaggle – Intro to ML

PROJECTS

Chronicle – Infrastructure-Grade LLMops Platform · Lead Developer & Architect 2025 – 2026

FastAPI · React (Vite) · PostgreSQL · SQLAlchemy · Groq · Tailwind CSS · Docker ↗ GitHub

- Architected immutable prompt versioning with hash-linked history and production-promotion workflow, ensuring 100% auditability of all LLM prompt changes.
- Engineered a Pareto Frontier optimization engine that auto-identifies the cost-accuracy “Knee Point” for model selection — achieved 100% accuracy on sentiment benchmarks using Llama-3.3-70B.
- Built automated evaluation pipelines (Exact Match, LLM-as-a-Judge, MCE) and LLM-driven synthetic data generator with Jaccard deduplication; backed by 180+ Pytest integration/unit tests.
- Crash-safe inference pipeline with real-time telemetry (latency, token usage, fractional cost/call); dual interface — Vercel-style React SPA + Python CLI.

LipSense – Deep Learning Visual Speech Recognition

2024 – 2025

TensorFlow · Keras · OpenCV · MediaPipe · CTC ↗ GitHub

- Conv3D encoder + Bidirectional LSTM decoder trained on GRID Corpus with CTC loss; achieved 95.2% sentence accuracy and 4.8% WER (~8.47M params, 96 epochs).
- MediaPipe Face Mesh pipeline for real-time Lip ROI extraction; served via FastAPI for low-latency inference.

LeafLens – AI Plant Disease Detection & Multilingual System

2024

TensorFlow · EfficientNetV2-B0 · FastAPI · Streamlit · gTTS ↗ GitHub

- EfficientNetV2-B0 CNN achieving 98.4% test accuracy across 41 crop disease classes (PlantVillage + PlantDoc + Rice/Cotton datasets); 70% confidence threshold for farm-condition robustness.
- Multilingual disease summaries and TTS audio across 11 Indian languages; sub-2s inference latency demoed to academic panel.

OmniText – NLP & Text Analytics Platform

2024

Python · spaCy · Streamlit · TextBlob · Sumy ↗ GitHub

- Solo-built NLP suite: Text Summarization (LSA/LexRank/TextRank), NER (spaCy), Sentiment Analysis, Word Cloud, and URL article scraping.

ACHIEVEMENTS

Winner – Smart India Hackathon (SIH) 2025

National Level · Govt. of India Dec 2025

- Built SimAstra – Autonomous Swarm Defense Framework for BEL / Central Research Lab (PS SIH25164); Wolf Pack multi-drone coordination to intercept adversarial UAV swarms, simulated in PyBullet with 15 kg heavy-payload physics.

Member – National Service Scheme (NSS)

Theem College of Engineering Batch 2024 – 25

- Community outreach, social awareness campaigns, and volunteer-driven development programs.