

Mohd Shad

shaadm70@gmail.com | LinkedIn | GitHub | Portfolio | India (Open to relocation)

SUMMARY

Full-stack engineer and technical writer with more than **3 years** of experience building, deploying and documenting AI and data science applications. Skilled in Python, JavaScript/React and Node.js, with a proven ability to architect scalable services using FastAPI, Flask and Docker. Adept at writing clear documentation, API references and tutorials that convey complex concepts to technical and non-technical audiences. Experienced in speech processing, retrieval-augmented generation and data analysis.

EDUCATION

Indian Institute of Technology Madras

2023 – 2027

B.S. in Data Science & Applications

Swami Vivekanand Subharti University, Meerut

2023 – 2026

B.A. in Mathematics & Economics

EXPERIENCE

Freelance Full-Stack Engineer & Technical Writer

Apr 2025 – Present

- Designed, built and documented **buzzzter.com**, an AI interview assistant that streams voice transcription and generates context-aware answers. Implemented microservices in FastAPI and Node.js, integrated STT and LLM reasoning, deployed via Docker on a VPS and authored user guides and API documentation.
- Developed **TRINETRA**, a full-stack HR platform with retrieval-augmented chatbots, resume matching and automated workflows. Wrote detailed README files, feature maps and API references, and enforced code quality through unit tests and continuous integration.
- Constructed **Samvaad**, a real-time text-to-speech engine using FastAPI and WebSockets; produced reproducible deployment guides and performance documentation.
- Built **LLM Agent Helper**, an agentic framework enabling tool use and multi-step reasoning; created user-facing documentation and maintained code examples.
- Collaborated with researchers to translate machine-learning evaluation results into clear narratives and recommendations using notebooks and reports.

Data Science & ML Analyst – Abrar Memorial Hospital

May 2024 – Apr 2025

- Collected and structured hospital and pharmacy inventory data, designed key performance indicators and applied forecasting models to predict medicine demand, reducing stock-outs.
- Delivered dashboards and reports explaining data pipelines, feature engineering and forecasting logic to medical staff and management.

PROJECTS

MentorClock — Career Mentorship Platform

2026

Live

- Developing a SaaS platform connecting mentees with industry mentors; integrated an AI resume builder using Next.js, Firebase and LangChain. Implemented subscription tiers and secure payment flows; writing documentation and tutorials for users and developers.

VeritasDeck — Document-to-Slides Generator

2025

GitHub

- Created a retrieval-augmented pipeline to convert PDFs into presentation slides; documented the workflow, including retrieval, summarization and slide generation logic.

Engage2Value — Purchase Value Prediction

2024

GitHub

- Built machine-learning models with advanced feature engineering to predict customer purchase value; achieved a top ranking among more than 1,700 participants; documented experiments and results.

SKILLS

Languages: Python, JavaScript/TypeScript (Node.js, React), C/C++, Java basics, SQL

Frameworks: FastAPI, Flask, Vue 3, React, Node.js, Express, Next.js

AI & ML: Generative AI, retrieval-augmented generation, speech-to-text, text-to-speech, deep learning (PyTorch)

DevOps: Docker, Git/GitHub, VPS (KVM), GitHub Actions, continuous integration, unit testing

Tools: REST APIs, WebSockets, Chrome extension APIs, PostgreSQL/MySQL, MongoDB, Postman

Writing: Technical writing, API documentation, README authoring, tutorial notebooks, data storytelling

ACHIEVEMENTS

Finalist, Devbhoomi Cyber Hackathon 3.0

Ranked 22/1700+ in Kaggle Engage2Value