

# Mohd Shad

shaadmr70@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

<b>Indian Institute of Technology Madras</b> B.S. in Data Science & Applications	2023 – 2027
<b>Swami Vivekanand Subharti University, Meerut</b> B.A. in Mathematics & Economics	2023 – 2026

## EXPERIENCE

<b>Freelance Full-Stack Engineer &amp; Technical Writer</b>	Apr 2025 – Present
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- Designed, built and documented **buuzzer.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.

<b>Data Science &amp; ML Analyst – Abrar Memorial Hospital</b>	May 2024 – Apr 2025
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- 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

<b>MentorClock — Career Mentorship Platform</b> Live	2026
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- 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.

<b>VeritasDeck — Document-to-Slides Generator</b> GitHub	2025
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- Created a retrieval-augmented pipeline to convert PDFs into presentation slides; documented the workflow, including retrieval, summarization and slide generation logic.

<b>Engage2Value — Purchase Value Prediction</b> GitHub	2024
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- 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