

ARSALAN SHAIKH

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PROFILE

AI Engineer currently architecting scalable ad-tech solutions at Adastraai AI, including an AI-powered Ads Copilot and Amazon Marketing Stream pipelines. Specialist in cloud-native AWS infrastructure (SQS, EC2, Amplify), LLMs, and MLOps. High-impact developer and Mumbai Hacks 2025 Finalist (selected from 15,000+ participants).

EXPERIENCE

Machine Learning Engineer Adastraai AI	Dec 2025 – Present
<ul style="list-style-type: none">Building an AI-powered Ads Copilot system for campaign optimization using real-time insights and automation.Designed and deployed Amazon Marketing Stream-based data pipelines with AWS SQS to process Amazon Ads data at scale.Deployed and maintained production systems on AWS EC2 and AWS Amplify with secure, cloud-native configurations.	
Gen AI Engineer (Remote) Journalyst	Oct 2025 – Dec 2025
<ul style="list-style-type: none">Built a real-time voice-driven trading psychology coach using Flask and React for seamless multimodal interaction.Integrated Groq Llama 3.3, Whisper ASR, and PlayAI TTS with a Pinecone-backed RAG pipeline for context-aware reasoning.Developed a custom Voice Activity Detection (VAD) module and adaptive intent-prompting system for personalized coaching.Delivered real-time psychological insights by analyzing user speech patterns and trading behavior.	

Software Engineer Intern (Remote) Dictation Daddy	Sep 2025 – Oct 2025
<ul style="list-style-type: none">Fine-tuned OpenAI Whisper Large for domain-specific transcription, improving production accuracy.Optimized inference pipelines, reducing latency by 40%+ (1s → 600ms).Deployed scalable APIs with robust monitoring, logging, and fault-tolerance.Integrated Gemini 1.5 LLM for adaptive text formatting based on contextual intent.	

SKILLS

- Machine Learning & Deep Learning:** Regression, Classification, Clustering, Ensemble Methods, Feature Engineering, PCA, Neural Networks, CNN, RNN/LSTM/GRU, Real-Time ML Systems
- Generative AI & LLMs:** OpenAI GPT APIs, Gemini 1.5, Groq Llama (3.1 / 3.3), Whisper ASR, PlayAI TTS, LangChain, RAG Pipelines, Prompt Engineering
- NLP:** Tokenization, Text Preprocessing, Word2Vec, BERT, Text Classification, NLTK, spaCy
- Cloud (AWS):** EC2, Amplify, S3, SQS, Amazon Marketing Stream
- MLOps & DevOps:** Docker, CI/CD Pipelines, Model Deployment, Logging, Monitoring
- Data & Analytics:** Exploratory Data Analysis (EDA), SQL (MySQL), NoSQL (MongoDB), Power BI, Matplotlib, Seaborn
- Programming & Frameworks:** Python (NumPy, Pandas, Scikit-Learn, TensorFlow, PyTorch), FastAPI, Flask, React

EDUCATION

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

2021 – 2025