

Arshad Khatib

+91-8806045005 | arshadkhatib.2006@gmail.com | [LinkedIn](#) | [Github](#) | [Portfolio](#) | [LeetCode](#) | [Codeforces](#)

EDUCATION

• National Institute of Technology, Surat

2024 – Present

Surat, India

B.Tech in Artificial Intelligence; CGPA: 7.98 (Current, 4th sem)

– **Relevant Coursework:** Data Structures, Design and Analysis of Algorithms, Database Management Systems, Operating Systems, Computer Networks, Machine Learning, Deep Learning, Linear Algebra, Probability & Statistics.

RESEARCH EXPERIENCE

• Hybrid Ensemble for Astrophysical Document Classification

Sept 2025 - Oct 2025

TRACS @ WASP 2025 (Shared Task) / Team: Clutch or Cry

Accepted Paper | Kaggle Rank: 4th

– **Tech Stack:** Python, PyTorch, astroBERT, XGBoost, Scikit-learn, Pandas, NumPy, LaTeX.

– **Developed** a hybrid ensemble model for multi-label text classification, achieving **4th place** on Kaggle leaderboard.

– **Synthesized** semantic embeddings from domain-adapted astroBERT with rule-based heuristics to maximize F1-score.

– **Published** research on mitigating class imbalance in astrophysical datasets via XGBoost meta-learners at WASP 2025.

PROJECTS

• HFT Market Analysis & Trading Platform

Dec 2025 - Jan 2026

Surveillance & Pattern Discovery

[Live Website](#) | [Github](#)

– **Tech Stack:** C++, Python, gRPC, DeepLOB CNN, AWS (ECS, RDS, S3), TimescaleDB, WebSockets, Docker.

– **Built** an ultra-low latency HFT platform processing 160+ snapshots/sec (<10ms) via dual-core C++/Python Microservices.

– **Deployed** DeepLOB CNN for real-time price direction prediction (63.4% accuracy) and automated spoofing detection.

– **Architected** scalable AWS infrastructure with TimescaleDB, achieving 8:1 compression for high-volume time-series data.

• Trendora (Full Stack AI-Powered Fashion Marketplace)

July 2025 - Aug 2025

Winner, Web Wonders 2025 (1st Rank)

[Live Website](#) | [Github](#)

– **Tech Stack:** Next.js, Firebase, GenAI (Gemini 2.5), LangChain, Leffa ML (CV), Razorpay, Shiprocket.

– **Architected** 'StyleSphere' social commerce hub and integrated 'Zyra' GenAI chatbot for personalized styling advice.

– **Deployed** Leffa ML Virtual Try-On (Computer Vision) to visualize outfits, significantly reducing return rates.

– **Developed** a robust e-commerce backend handling payment orchestration (Razorpay) and automated logistics (Shiprocket).

• OneFlow: Plan-to-Bill Platform

Nov 2024

Ondo Hackathon @ IIT Gandhinagar

[Live Website](#) | [Github](#)

– **Tech Stack:** Next.js, PostgreSQL, Prisma ORM, Tesseract OCR, TypeScript, Docker.

– **Developed** a full-stack billing solution with Role-Based Access Control (RBAC) in a 24-hour offline hackathon.

– **Constructed** scalable bulk data ingestion pipeline for automated user onboarding via Prisma ORM transactions.

– **Integrated** Tesseract OCR to automate data extraction from physical invoices, streamlining financial operations.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, TypeScript, JavaScript, HTML5, CSS3, R, Bash/Shell

Machine Learning & AI: PyTorch, TensorFlow, Scikit-Learn, XGBoost, LangChain, RAG, LLMs, NLP, Computer Vision, MLOps, Prompt Engineering

Web Development: Next.js, React.js, Node.js, FastAPI, Tailwind CSS, Redux, WebSockets, RESTful APIs, Microservices

DevOps & Tools: Git, Docker, Kubernetes, AWS (EC2, ECS, S3), Google Cloud (GCP), CI/CD, Linux, Postman, LaTeX

ACHIEVEMENTS

• **1st Place Winner, Web Wonders 2025:** Secured top rank in Full-stack Web dev competition for 'Trendora'.

• **Kaggle Rank 4, WASP 2025:** Achieved 4th place on Kaggle leaderboard for TRACS Shared Task.

• **Finalist, ACM Summer Challenge 2025:** Qualified as finalist in competitive programming contest (Top 2%).

• **Best Actor, Rangmarch 2025:** Demonstrated exceptional public speaking, dramatics, and cross-functional team collaboration.

POSITIONS OF RESPONSIBILITY

• **Google Developer Group (GDG):** Junior Developer, selected for technical expertise (Oct 2025 – Present).

• **ACM Student Chapter:** Executive Member, organizing technical workshops (Sept 2025 – Present).

• **Mindbend:** Co-Head, Specialized in Sponsorship and Outreach (Nov 2025 – Present).