

Arshad Khatib

+91-8806045005 | arshadkhatib.2006@gmail.com | LinkedIn | Github | Portfolio | LeetCode

EDUCATION

• National Institute of Technology, Surat

2024 - Present

Surat, Gujarat

B.Tech in Artificial Intelligence; CGPA: 7.95 (Current)

- Relevant Coursework: Data Structures, Design and Analysis of Algorithms, DBMS, Computer Organisation, Discrete Mathematics, Linear Algebra.

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

- Engineered a hybrid two-level ensemble model to solve multi-label classification of telescope facility roles, processing complex astrophysical literature datasets.
- Outperformed baseline models by securing 4th place on the official Kaggle leaderboard, leading to a co-authored paper acceptance at the prestigious WASP 2025 workshop.
- Synthesized semantic context from domain-adapted astroBERT with symbolic matching from a rule-based classifier to maximize prediction accuracy.
- Optimized per-role performance by deploying four independent XGBoost meta-learners, successfully mitigating severe class imbalance issues in the training data.

PROJECTS

• Trendora (AI-Powered Fashion Marketplace)

July 2025 - Aug 2025

Winner, Web Wonders 2025 (1st Rank)

Live Website | Github

- Architected 'StyleSphere', a high-engagement social hub featuring a Reels-style infinite scroll and live streaming capabilities, significantly enhancing user retention.
- Integrated the 'Zyra' AI Chatbot using LangChain and Gemini 2.5 Flash, providing context-aware styling advice to personalize the shopping experience.
- Deployed a Virtual Try-On feature utilizing Leffa ML, allowing users to realistically visualize outfits and reducing potential return rates.
- Built a robust e-commerce backend with Next.js and Firebase, implementing secure Razorpay checkout and real-time Shiprocket logistics tracking.

• Biodegradable Material Classifier (Edge AI)

Aug 2025 - Sept 2025

Makernova - Robotics Club

Documentation | Github

- Spearheaded the development of an autonomous waste classification system using a custom CNN architecture, achieving 97% accuracy in material identification.
- Implemented the model on a Raspberry Pi using OpenCV, enabling real-time inference on live webcam feeds for robotic sorting applications.
- Documented the complete model architecture and hardware integration process to facilitate reproducibility and future team handovers.

TECHNICAL SKILLS

- Languages: Python, C++, SQL, JavaScript (ES6+), HTML5/CSS3
- AI & Machine Learning: PyTorch, TensorFlow, Keras, Scikit-Learn, OpenCV, astroBERT, LangChain
- Web Development: Next.js, React.js, FastAPI, Node.js, Tailwind CSS, REST APIs
- DevOps & Tools: Git, GitHub, Docker, Firebase, Vercel, AWS (EC2), Google Cloud Platform, Linux

ACHIEVEMENTS

- Top 5 Global Rank, Secured 4th place on Kaggle Leaderboard for TRACS @ WASP 2025 Shared Task. 2025

- Winner (1st Place), Web Wonders 2025 Hackathon (Fashion Theme) for project 'Trendora'. 2025

- Finalist, ACM Summer Challenge 2025 - Competitive programming and development contest. 2025

- Best Actor & Play, Won double accolades at 'Rangmarch 2025', demonstrating strong public speaking skills. 2025

POSITIONS OF RESPONSIBILITY

- Junior Developer, Google Developer Group (GDG) on Campus, NIT Surat (technical expertise) Oct 2025 - Present
- Executive, Association for Computing Machinery (ACM), NIT Surat (Organizing tech events) Sept 2025 - Present
- Member, Kirdaar (CHRD) - Acting and Dramatics Club, NIT Surat Jan 2025 - Present