



Arshad Khatib

B.Tech - Artificial Intelligence
National Institute of Technology, Surat

+91-8806045005

arshadkhatib.2006@gmail.com

Portfolio | [LinkedIn](#) | [Github](#)

[Codeforces](#) | [LeetCode](#)

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech - AI	National Institute of Technology, Surat	8.00 (Current)	2024-Present
Higher Secondary	HSC Board	83%	2024
Secondary	SSC Board	94%	2022

RESEARCH EXPERIENCE

• Hybrid Ensemble for Astrophysical Document Classification

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

Sept 2025 - Oct 2025

[Paper \(Accepted\)](#) | [Leaderboard](#) | [WASP](#)

- Tech Stack: **Python, PyTorch, astroBERT, XGBoost, Scikit-learn**
- Achieved **4th Place** on the official Kaggle leaderboard for the TRACS @ WASP 2025 multi-label classification shared task, organized by [IJCNLP-AACL](#).
- Co-authored a research paper ([Accepted at WASP 2025](#)) detailing our **hybrid stacking ensemble** architecture, designed to classify telescope roles in scientific literature.
- Engineered a two-level model fusing a domain-adapted **astroBERT** (for semantic context) with a rule-based keyword classifier (for symbolic matching).
- Developed a per-role optimization strategy using four independent **XGBoost** meta-learners to successfully mitigate severe class imbalance.

PROJECTS

• Biodegradable Material Classification

Makernova - Drishti (Robotics club), NIT Surat

Aug 2025 - Sept 2025

[Documentation](#) | [Github](#)

– Tech Stack: **TensorFlow, Keras, OpenCV** and **Python**

- Led a team of developers to design a **CNN** model to autonomously classify materials as Biodegradable or Non-Biodegradable.
- Designed and trained a deep **CNN** architecture for feature extraction and high-accuracy material identification.
- Deployed the model on a **Raspberry Pi** using **OpenCV** to perform real-time classification from a live webcam feed.

• Trendora (1st Place Winner)

Web Wonders - Conducted by Nexus, NIT Surat

July. 2025 - Aug. 2025

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

– Tech Stack: **Next.js, Tailwind CSS, Firebase, Vercel, Razorpay, Shiprocket, LangChain, Gemini 2.5 Flash** and **Leffa ML**

- Developed **StyleSphere**, a social hub for sharing looks, scrolling reels (FashionTV-style), and joining live streams.
- Built an e-commerce **Marketplace** with smart search, **Razorpay** checkout, and real-time **Shiprocket** shipping integration.
- Integrated the **Zyra AI Chatbot** (powered by **LangChain + Gemini 2.5 Flash**) for personalized styling tips.
- Deployed an ML-powered **Virtual Try-On** feature using **Leffa ML** for realistic outfit trials.

ACHIEVEMENTS

- **Top 5 in TRACS @ WASP 2025**, Secured **4th rank** on official Kaggle Leaderboard of TRACS @ WASP 2025 2025
- **Winner, Web Wonders 2025**, Secured **1st rank** in Web Wonders 2025 (Fashion Theme) for the 'Trendora' project. 2025
- **Finalist, ACM Summer Challenge 2025**, Finalist in the competitive summer challenge conducted by ACM NIT Surat 2025
- **Best Actor & Best Play, Rangmarch 2025**, Won 'Best Actor' and 'Best Play' in **Rangmarch**, organized by Kirdaar CHRD. 2025

TECHNICAL SKILLS

- **Languages:** Python, C/C++, SQL, JavaScript, HTML/CSS
- **Frameworks & Libraries:** PyTorch, TensorFlow, Scikit-Learn, Keras, OpenCV*, Next.js, ReactJS, FastAPI, Django, Tailwind CSS
- **Platforms & Tools:** Git, GitHub, Firebase, Vercel, AWS, Google Cloud Platform* * Elementary proficiency

POSITIONS OF RESPONSIBILITY

- **Junior Developer**, Google Developer Group on Campus, NIT Surat Oct. 2025 - Present
- **Member**, Drishti - Robotics Club, NIT Surat Sept. 2025 - Present
- **Executive**, Association for Computing Machinery, NIT Surat Sept. 2025 - Present
- **Representative**, Nexus - DoCSE and DoAI Cell, NIT Surat Aug. 2025 - Present
- **Member**, Kirdaar (CHRD) - Acting and Dramatics Club, NIT Surat Jan. 2025 - Present