Arshad Khatib

B.Tech - Artificial Intelligence
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Github | LinkedIn | 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

PROJECTS AND RESEARCH EXPERIENCE

- **Hybrid Ensemble for Astrophysical Document Classification** *Sept 2025 - Oct 2025*
  TRACS @ WASP 2025 (Shared Task) / Team - Clutch or Cry Paper (Under Review) | 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 (under review) 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.

- **Biodegradable Material Classification** *Aug 2025 - Sept 2025*
  Makernova - Drishti (Robotics club), NIT Surat Documentation | Github
  - Tech Stack: **TensorFlow, Keras, OpenCV** and **Python**
  - Led a team of developers in designing a **CNN** based classification model to classify different kinds of materials into Biodegradable and Non-Biodegradable classes.
  - Developed a Deep Learning architecture integrating **CNN** for feature extraction.
  - Integrated the model into hardware using a **Raspberry Pi** and **OpenCV** for direct detection through a webcam.

- **Trendora** *July. 2025 - Aug. 2025*
  Web Wonders - Conducted by Nexus, NIT Surat 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 under Fashion Theme *2025*
- **ACM Summer Challenge 2025**, **Finalist** in the Summer challenge conducted by ACM NIT Surat *2025*
- **Best Actor and Best Play Rangmanch 2025**, Won the Best Actor as well as Best play in **Rangmanch** organized by Kirdaar CHRD, showcasing Exceptional speaking, Writing and Direction abilities *2025*

TECHNICAL SKILLS

- **Computer Languages**: Python, C/C++, HTML, CSS, Javascript, SQL
- **Software Packages and Frameworks**: PyTorch, TensorFlow, Keras, Scikit-Learn, OpenCV*, Django, FastAPI, ReactJS, NextJS, Tailwind CSS, Git
- **Services and Platforms**: Firebase, 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 *Aug. 2025 - Present*