

Tariq Ahmad

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[LinkedIn](#) · [GitHub](#)

Career Objective

Aspiring real-time problem solver with a strong foundation in Electrical and Computer Engineering, specializing in AI, cloud computing, and automation. Passionate about developing innovative solutions that enhance efficiency, accuracy, and scalability in real-world applications. Eager to apply technical expertise and collaborative skills in challenging, fast-paced environments.

Professional Summary

Detail-oriented Python developer and aspiring ML Engineer with hands-on experience building practical tools—from data-sampling utilities (Nibber) to image-background removal apps (BackGroundRemover). Experienced with FastAPI, Flask, Azure, and Linux systems. Passionate about delivering scalable backend systems and ML-augmented utilities.

Technical Skills

- **Languages:** Python, C++, HTML, CSS, JavaScript, SQL
 - **Frameworks / Libraries:** FastAPI, Flask, Tkinter, Pandas, NumPy, OpenCV, rembg, Scikit-learn, PyTorch (where applicable)
 - **Data & Storage:** Parquet, PyArrow, CSV, Excel
 - **Tools & Platforms:** Microsoft Azure, Docker, Git, GitHub, VirtualBox, Render, Fly.io, Celery, React (frontend)
 - **Other:** REST API development, model deployment, responsive UI design, Linux command line
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Soft Skills

Problem solving · Communication · Teamwork · Project documentation · Time management

Experience

Intern - AI Division

Advanced Telecom Services (ATS AI Lab), Haripur, KPK

July 16, 2025 - August 2025

- Contributed to AI model development and deployment using **Python**, **Microsoft Azure**, and **FastAPI**.
- Processed and analyzed large datasets (CSV, Excel, Parquet) with **Pandas** and **NumPy**, improving data preprocessing efficiency by **~30%**.
- Assisted in integrating ML algorithms into telecom systems, improving prediction accuracy by **~15%**.
- Designed and tested computer-vision workflows with **OpenCV**, optimizing image-processing latency by **~20%**.
- Documented workflows and prepared technical reports for knowledge transfer.

Internship details (record): Placement Proforma issued by Pak-Austria Fachhochschule; Internship employer: Ahmed Ali (AI Division, Advanced Telecom Services); Joining date: July 16, 2025.

Education

Bachelor of Science — Electrical & Computer Engineering

Pak-Austria Fachhochschule: Institute of Applied Sciences and Technology (PAF-IAST), Haripur, KPK

- Current: 4th semester · **CGPA:** 2.9 / 4.0
 - Expected graduation: **2027**
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Projects (selected)

Repos & demos available on GitHub (see profile)

Nibber — Data Sampling Tool · FastAPI, Pandas, PyArrow, Parquet, Excel, CSV

- Built a web-based sampler capable of handling datasets **>10M rows**.
- Implemented optimized sampling algorithms that reduced end-to-end processing time by **40%**.
- Added live progress tracking and resumable sampling to improve analyst productivity.

MarketPulse — Intelligent Trading Advisor · FastAPI, React, Celery, vectorstore

- Engineered a hybrid evidence-based recommendation system combining historical data, live news, and semantic vector retrieval.
- Reduced false-positive trading signals by **18%** via tuning and multi-source validation.
- Designed dashboard with “Why?” explanations and country-specific analysis.

Background Removal App · Python, Tkinter, rembg, OpenCV

- Developed an offline GUI tool achieving **~95% accuracy** on standard product photos.
- Optimized pipeline for multi-threaded processing, cutting latency by **25%**.

- Delivered an intuitive GUI; non-technical users able to process images within **5 minutes** of first use.

Flask → Android Packaging · Flask, WebView

- Ported Flask web apps into an Android WebView wrapper for offline local hosting.
- Improved mobile accessibility and enabled testing for **100+** early users.

3D Model Generation from Text · ML + Blender API

- Built a pipeline that converts textual prompts into 3D meshes; optimized mesh construction to reduce generation time by **35%**.
- Integrated an interactive preview for immediate inspection before export.

AI-Powered Data Cleaner · Python, Pandas, Scikit-learn, Regex

- Created an automated cleaning utility detecting and fixing **15+** common data issues; reduced manual preprocessing by **50%** for datasets up to 2GB.
- Built anomaly detection models achieving **~92% precision** on flagged outliers.

Open-Source / Selected Repositories

- BackgroundRemover · Background_removal_imgs · nibber-data-sampler · flaskapp · flaskPredict
(Full repo list on my GitHub profile: <https://github.com/tCDFHSKHDF>)

Achievements / Awards

- **Assistant Manager - Welfare Society**, Pak-Austria Fachhochschule
 - Led and coordinated multiple welfare initiatives, impacting over 200 students through fundraising drives, awareness campaigns, and community outreach programs.
 - Managed event planning, budget allocation, and volunteer coordination to ensure smooth execution of society activities.
 - Collaborated with university administration and external partners to expand the reach and effectiveness of welfare programs.

Certifications

- **Basic Python Programming** — Coursera — **30 Dec 2023**
- **Navigating Linux Systems & Essential Cybersecurity Concepts** — Usama Tayyab — **15 Mar 2025**

Languages & Proficiency

- **English** — IELTS **6.0** Overall (21 Oct 2023)
- **Urdu** — Native

- **Pashto** — Native
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Hobbies & Interests

- Exploring AI and Machine Learning models
 - Cloud computing & deployment on Microsoft Azure
 - Open-source contributions on GitHub
 - Linux system customization and scripting
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References

Available upon request.

Availability

Open to internships and entry-level roles in Backend / ML / Full-Stack development. References and full internship placement proforma available on request.