AYESHA FAROOQ

Computer Science Student | AI/ML Engineering Intern

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PROFESSIONAL SUMMARY

Computer Science undergraduate with hands-on experience building backend APIs in Python and machine learning pipelines, currently interning in Backend AI Engineering and AI Fluency tracks at FlyRank AI. Reached the top ~20% of a Kaggle competition through rigorous feature engineering and model validation, and has a track record of catching subtle bugs (data leakage, hardcoded outputs) that others miss. Seeking to apply backend and applied ML skills toward a fully funded Master's in AI/ML and a long-term research career.

TECHNICAL SKILLS

Languages & Frameworks: Python, FastAPI, SQL

Machine Learning: Scikit-learn, LightGBM, Pandas, NumPy, feature engineering, cross-validation

Backend & Infrastructure: REST API design, SQLite, PostgreSQL, Docker, Supabase (Auth)

Tools: Git/GitHub, Google Colab, Kaggle, Jekyll

EXPERIENCE

AI/ML Intern — FlyRank AI

Backend AI Engineering Track & General AI Fluency Track | June 2026 – Present

- Built a full CRUD API in Python using FastAPI, exposing 7 REST endpoints and evolving storage through 3 backend stages (in-memory → SQLite → Dockerized PostgreSQL), with a staged Git commit workflow (Task CRUD API project).
- Containerized a PostgreSQL database with Docker, including WSL2-based troubleshooting on Windows (BE-04).
- Built a Supabase-backed authentication API in Python/FastAPI, exposing secure REST API endpoints for user auth flows with clean endpoint design.
- Completed an AI Workflow Audit, three applied case studies, and an Agents & MCP technical explainer as part of the AI Fluency track.
- Designed a personal brand identity kit and portfolio sitemap, and built a Draft-Critique-Revise content pipeline.

PROJECTS

Student Health Risk Prediction — Kaggle Playground Series S6E7

- Built an end-to-end ML pipeline in Python with LightGBM, reaching a public leaderboard score of 0.95030 (top ~20%) across 13 iterations.
- Engineered ratio features, ordinal/target encoding, and BMI bucketing; validated with 5-fold stratified cross-validation.
- Published the solution as a Kaggle Notebook and earned the "Code Uploader" badge.

Brain Tumor Classification

- Built a Random Forest model in Python for MRI-based tumor classification in Google Colab.
- Identified and fixed a data leakage bug and a hardcoded confidence-value bug during model review.
- Implemented a hybrid clinical-rule and ML confidence approach designed to hold up under scrutiny.

Sehat Sahara — AI Health Guidance Chatbot

- Built a FastAPI chatbot in Python delivering health guidance in Roman Urdu/English with safety guardrails via a REST API backend.
- Designed as an AI-for-social-good portfolio piece aimed at underserved communities.

Podcast Platform UI (NSoC'26)

- Built a responsive podcast streaming platform interface using HTML, CSS, and JavaScript.

EDUCATION

BS Computer Science — University of Narowal, Pakistan | Expected 2027

Coursework: Object-Oriented Programming, Data Structures, Databases, Software Engineering.