

AROON KUMAR

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EDUCATION

SZABIST University

B.S. Computer Science (CGPA: 3.33)

Islamabad, Pakistan
Aug 2023 – Jun 2027

- Coursework: AI & ML, NLP, Algorithms & Data Structures, OS, Networks
- Activities: Microsoft Learn Student Ambassador (MLSA) · Open-Source Contributor ([mozilla-ai/any-llm](#)) · AI/ML Technical Workshops

EXPERIENCE

10Pearls

Data Science Intern [Certificate]

Live · GitHub · Islamabad, Pakistan (Remote)
Jun 2025 – Aug 2025

- Developed end-to-end AQI forecasting system (3-day horizon) for Islamabad; evaluated Random Forest, LightGBM, XGBoost, and Neural Network ensembles achieving MAE <10% and $R^2 > 0.85$ on held-out test data
- Engineered time-series feature pipelines boosting model accuracy 15% over baseline; applied SHAP/LIME explainability identifying features explaining >70% of predictive variance across 10,000+ multi-sensor records
- Built CI/CD-enabled MLOps workflow with hourly feature ingestion and daily systematized retraining; deployed Streamlit dashboard for live public AQI monitoring

SZABIST University

AI & Database Intern [Internship Letter]

Islamabad, Pakistan
Mar 2026 – Present

- Architected AI-powered Timetable Management System (TMS) using constraint-satisfaction algorithms for automated semester scheduling, room allocation, and conflict resolution across 8+ departments and 15,000+ student records

Prudential Solutions

AI/ML Solutions Engineer (Part-Time) [Certificate]

Live · GitHub · Islamabad, Pakistan
Aug 2025 – Feb 2026

- Designed LLM-powered microservices architecture integrating Retrieval-Augmented Generation (RAG), multi-agent reasoning systems, and autonomous task execution pipelines for enterprise production deployments
- Created real-time Speech-to-Speech workflow (OpenAI Realtime SDK + LiveKit) with sub-300ms end-to-end latency; processed 500+ voice queries at 95% transcription accuracy, 300+ TTS responses at >90% intelligibility
- Built API Gateway with Redis caching supporting 200+ concurrent requests and ~50% latency reduction; integrated OpenAI, Hugging Face, and LangChain APIs with streamlined CI/CD delivery architecture

PROJECTS

AigilityX — Sovereign AI Agent Platform | [aigilityx.com](#) · Python · FastAPI · LangChain · FAISS · Ollama 2025

- Engineered multi-agent orchestration platform with RAG (FAISS + LangChain), real-time STT/TTS interfaces, and cascaded LLM routing (Mistral 7B → personal LLM → OpenAI) with fault-tolerant API Gateway and graceful degradation

Bangalore Home Price Prediction | [GitHub](#) · Python · scikit-learn · Flask · HTML/CSS/JS 2025

- Developed end-to-end real estate price prediction web app for Bangalore; trained Linear Regression model with location-wise feature engineering, served via Flask REST API with an interactive HTML/CSS/JS frontend

AQI Prediction MLOps system | [Live App](#) · [GitHub](#) · [GitHub Actions](#) · [Streamlit](#) 2025

- Serverless ML system with automated retraining, SHAP-based interpretability, and live deployment; academic paper submitted framing architecture as an end-to-end MLOps reference for time-series environmental forecasting

TECHNICAL SKILLS

Languages	Python, Java, C++, SQL
AI / ML	LLMs, RAG, Multi-Agent Systems, NLP, Speech AI (TTS, STT), SHAP/LIME, MLOps
Frameworks	Scikit-learn, PyTorch, TensorFlow/Keras, LangChain, Hugging Face, Transformers, FastAPI
LLM / Infra	OpenAI API & Realtime SDK, Ollama (Mistral/LLaMA), FAISS, ChromaDB, LiveKit
MLOps/DevOps	GitHub Actions (CI/CD), Docker, MLflow, Streamlit
Databases	PostgreSQL, Redis, MySQL
SE Practices	OOP, Design Patterns, Code Review, Unit Testing, Agile/Scrum

LEADERSHIP

AIESEC Islamabad — Team Lead OGT / Director, Customer Experience Jan 2026

National Strategic Conference '26 — Executive Head of Logistics, AIESEC Pakistan Dec 2025 – Jan 2026

Microsoft Learn Student Ambassador (MLSA) — AI/ML Technical Workshops & Community Programs 2024 – Present