Wardah Haya

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Summary

AI Engineer and Full-Stack Developer with comprehensive experience designing agentic frameworks, high-throughput asynchronous backends, and multi-modal machine learning systems. Expert at driving architectural efficiency, securing processing pipelines, and deploying award-winning distributed applications across national hackathons.

Technical Skills

Languages: Python (Asyncio), TypeScript, JavaScript (ES6+), SQL, C++, Tailwind CSS, HTML5/CSS3
AI, ML & Orchestration: LangGraph, LangChain, LlamaIndex, Model Context Protocol (MCP), PyTorch, TensorFlow, Scikit-Learn, XGBoost, Multi-Agent Systems, RAG, Fine-Tuning (LoRA, QLoRA), OpenCV, Semantic Search
Frameworks & Libraries: FastAPI, Node.js, React, Next.js, Streamlit, ReportLab, WebSockets (Socket.io), REST APIs, JWT
Cloud, DevOps & Tools: Google Cloud Platform (GCP), Docker, GitHub Actions CI/CD, Vercel, Git, LangSmith, Jest, Drift Monitoring, Automated Eval Suites, System Design

Experience

Machine Learning Intern Jul 2025 – Aug 2025
Mecha Innovation, Siber Koza Pvt. Ltd. (NASTP) *Rawalpindi*

- Optimized engineering workflows by 60% by developing multi-step agentic AI pipelines using LangChain and LangGraph, integrating the Model Context Protocol (MCP) across production enterprise REST APIs.
- Reduced RAG framework response times to sub-second latencies by deploying LlamaIndex with Chroma and minimizing model memory footprints via 4-bit LoRA/QLoRA quantization inside Dockerized CI/CD pipelines.

AI Engineering Intern – Dev Cell, ACM GIKI Dec 2024 – Apr 2025
Ghulam Ishaq Khan Institute (FCSE Dean & GIKI Admin Initiative) *Topi, Swabi*

- Increased user-brand matchmaking accuracy by 45% across an enterprise analytics platform by training and serving supervised classification and recommendation models using Scikit-Learn and XGBoost.
- Resolved core data pipeline bottlenecks for an 8-member engineering team by architecting high-throughput asynchronous FastAPI backends and establishing strict machine-readable payload specifications.

Projects

Buraq: Agentic Gmail Assistant Feb 2026 – May 2026

- Mitigated real-time streaming inbox data security risks against 100% of un-gated prompt leaks by designing a stateful dual-agent architecture utilizing GCP Gmail API and OAuth2 protocols.
- Reduced average email processing cycles by 70% by engineering cyclic LangGraph routing logic, Chroma vector search engines, and highly responsive asynchronous FastAPI backend streams.

AID: Autism Pre-Screening System Jan 2025 – May 2026

- Delivered a 0.895 ROC-AUC and 97.4% clinical recall rate by building a multi-modal pre-screening diagnostic pipeline matching a fine-tuned ResNet-50 vision network with a calibrated XGBoost classifier.
- Accelerated end-to-end model inference to sub-10s by orchestrating async FastAPI backends, Groq Llama-3.1 structured parsing, Firebase authentication layers, and automated ReportLab PDF generation.

Hunarkada Hyperlocal Marketplace May 2026

- Engineered a distributed marketplace platform featuring an algorithmic 0-100 user trust scoring system, Leaflet.js geofenced spatial mapping elements, and secure identity-masked chat rooms via Socket.io.
- Won Runner-Up honors and a Rs 25,000 prize among 20+ teams at the Ikhtira ’26 National Hackathon by optimizing rendering lifecycles on a responsive Next.js and Tailwind CSS frontend.

Education

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) Topi, Swabi
Bachelor of Science in Artificial Intelligence *Expected Jun 2026*

Leadership

Team Captain – AIAA GIKI Chapter Sep 2024 – Nov 2025

- Earned a Top-5 finish out of 20 elite national teams at NDBFC 18 by leading cross-functional engineering squads to design, simulate via XFLR5, and manufacture a Cessna-185 heavy-lift RC aircraft.

Program Manager – Microsoft Club GIKI | **Lead Organizer – ACM GIKI** Oct 2023 – Nov 2025

- Expanded event enrollment by 25% by managing logistically intensive execution for the ICPC Asia Topi Regional and directing technical bootcamps on Agentic AI frameworks for 200+ developers per semester.