

SAAD ISHAQ

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SUMMARY

Junior Full-Stack ML Engineer with hands-on experience building end-to-end ML pipelines, RAG-based retrieval systems, automated evaluation frameworks, and production-ready web applications. Skilled at solving real-world problems through clean, efficient code, from domain-specific model fine-tuning to responsive user interfaces, with a strong focus on measurable impact.

EXPERIENCE

Junior ML Engineer

wAI Industries

November 2025 – Present, Islamabad, Pakistan

- Solved silent model degradation by engineering a drift detection that monitors composite accuracy and auto-triggers retraining when performance drops below a set threshold, with metrics logged to MLflow and Langfuse.
- Optimized Model Training via Optuna HPO, automatically determining the ideal learning rate (5e-6) and weight decay; achieved rapid convergence from 2.5 to 0.045 loss in only 60 steps (~2.4 samples/sec) using the Unsloth framework.
- Improved biosciences answer quality by 26% (composite 0.56 to 0.71) via SFT + GRPO RL fine-tuning on 5,669 QA pairs, validated with a 6-way automated benchmark (baseline / RAG / SFT / GRPO × ±retrieval).
- Assembled an end-to-end pipeline integrating VLLM QA generation, LEANN HNSWlib retrieval, drift detection, SFT, GRPO, and benchmarking, deployable with one command.

Web Developer Intern

Dynamics360

September 2025 – October 2025, Islamabad, Pakistan

- Built a React + Node.js admin panel with full CRUD operations and RESTful APIs, cutting content update time by 60% and reducing developer dependency for routine tasks.

PROJECTS

BookHeaven – Full-Stack Library System

github.com/saadishaq2/BookHeaven-Library-System

- Solved inefficient manual book management by building a MERN-stack library app with secure JWT authentication, a shopping cart, and an admin dashboard, reducing manual handling tasks by 40% and cutting inventory errors across daily operations.
- Built a Node.js + Express + MongoDB backend with optimized CRUD APIs, improving response time by 15% and enforcing more secure route validation throughout the app.

Student Performance Early Warning System

github.com/saadishaq2/Student-Performance-Early-Warning-System.git

- Solved the problem of late identification of at-risk students by building a Python ML model that analyzes grades, attendance, and assignment submission patterns to flag struggling students early in the semester, integrated with a React dashboard displaying risk scores and trend charts for faculty advisors.

SKILLS

Languages:	Python, JavaScript, SQL, C++
Frameworks:	React, Node.js, scikit-learn, FastAPI, LangChain, Numpy
ML / AI:	Fine-Tuning (SFT), GRPO RL, Drift Detection, Dynamic Context Engineering, RAG and Composite Evaluation
Tools:	Git, MLflow, Langfuse, Letta, Colab, Azure, VS Code, Azure DevOps
Practices:	Full-Stack Development, REST API Design, Modular Pipeline Architecture, Observability & Tracing

EDUCATION

Bachelor of Science in Software Engineering
2025

Sep 2021–June

International Islamic University • Islamabad, Pakistan

CERTIFICATIONS

Full-Stack Web Development,
Navttc – 2025

Advanced Scrum Master,
Agile Enterprise Coach – 2025

Project Management (Udemy)
Udemy – 2025