ABDUL WAHID

AI / ML Developer | BS Artificial Intelligence Student

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PROFESSIONAL SUMMARY

BS Artificial Intelligence undergraduate (CGPA 3.46/4.00) and Machine Learning Intern at Ezitech Institute, where I trained and benchmarked XGBoost and LightGBM models on healthcare datasets (best: LightGBM, 0.83 AUC-ROC), with MLflow experiment tracking and SHAP-based explanations served through FastAPI. I build and deploy full-stack ML products end to end, including WhyRisk, a live explainable healthcare risk platform, and Study Hub, a resource platform used by my entire BS AI class cohort. Focus areas: explainable AI (XAI), MLOps, and production ML workflows.

EXPERIENCE

Machine Learning Intern (Remote) July 2026 – September 2026

Ezitech Institute (Eziline Software House) Islamabad, Pakistan

- Trained and benchmarked XGBoost, LightGBM, and scikit-learn classifiers across 7 de-identified healthcare datasets, logging all experiments in MLflow and promoting the best model (LightGBM, 0.83 AUC-ROC) to production in the model registry.
- Built a SHAP-based explainability layer that produces patient-level prediction explanations, served through FastAPI REST endpoints.
- Developed an MLOps monitoring UI for dataset-drift detection and retraining triggers; containerized the ML service with Docker for cloud deployment.

Tech Stack: *Python, FastAPI, scikit-learn, XGBoost, LightGBM, SHAP, MLflow, Next.js, TypeScript, Supabase (PostgreSQL)*

PROJECTS

WhyRisk — Healthcare Risk Prediction Platform with Explainable AI Live | GitHub

Built during ML Internship at Ezitech

- Built and deployed a full-stack clinical risk platform (Next.js, TypeScript, FastAPI, Supabase) serving a LightGBM diabetes risk model trained on 70,692 health records (BRFSS), achieving 0.8222 AUC-ROC on a held-out test split.
- Every prediction is stored with a patient-level SHAP explanation; the platform supports patient, doctor and admin roles with row-level-secured data, drift monitoring (PSI), rate limiting and a live model card.

Tech Stack: *Python, FastAPI, scikit-learn, XGBoost, LightGBM, SHAP, MLflow, Next.js, TypeScript, Supabase (PostgreSQL)*

Plan Banao — AI Hackathon Planning Agent Live | GitHub

MTM Hackathon '26 (V2) · GDG On Campus CUI Wah · Nov 2026

- Built an agent system that reads a pack of emails, WhatsApp messages and notices (English and Roman Urdu) and produces a complete, validated plan for a 4-hour hackathon — venue, schedule, food, judging and budget.
- Designed the architecture so the language model only extracts facts; all planning, arithmetic and validation run in deterministic code, and any message that would break a validated plan is rejected with a reason.
- Sample pack planned at Rs 547,400 against a Rs 650,000 cap — all 6 validation checks passed; full run ≈ 5 seconds.
- Offline regression suite 23/23 passing, including wrong-message rejection and transactional updates.

Tech Stack: *Python, Groq (gpt-oss-20b), JavaScript, Vercel*

Customer Churn Prediction System: (Team Project — ML Coursework) Live | GitHub

- Engineered the data preprocessing and model evaluation pipeline using telecom customer data.
- Benchmarked Logistic Regression, Decision Tree, K-Nearest Neighbors (KNN) and Multilayer Perceptron (MLP) classifiers; Logistic Regression performed best, achieving 84% accuracy and 71% F1-score.

Tech Stack: *Python, pandas, NumPy, scikit-learn, Matplotlib*

Study Hub (FA24-BAI): *AI-Powered Study Resource Platform* Live | GitHub

- Built and deployed a serverless web app that organizes course resources (CDFs, lab manuals, syllabuses) across 6 courses, with search, type filters, favorites/recents, and installable PWA support.
- Integrated the Gemini API to generate document summaries, practice quizzes, and viva questions on demand; implemented password-protected admin upload/delete using the GitHub API as the storage layer.

Tech Stack: *JavaScript, HTML/CSS, Node.js, Vercel Serverless Functions, Gemini API, GitHub API*

EDUCATION

BS in Artificial Intelligence — August 2024 – 2028
COMSATS University Islamabad – Attock Campus — CGPA: 3.46 / 4.00

ICS – Intermediate in Computer Science — 2022 – 2024
FAZAIA Degree College, ARF Kamra — 827/1100 (75.2%)

SKILLS

Languages: Python, Java, C++, HTML, CSS, JavaScript, TypeScript.
ML & Data Science: scikit-learn, NumPy, Pandas, Matplotlib, MLflow, SHAP, XGBoost and LightGBM.
Frameworks: FastAPI, Flask, Next.js, React.
Databases & Backend: MySQL, PostgreSQL, Supabase, Node.js.
Concepts: Machine Learning, Generative AI, LLM Integration (Gemini API), Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Big-O Analysis, REST APIs.
DevOps & Tools: Git, GitHub, Vercel, Docker.
AI-Assisted Development: GitHub Copilot, Claude, Claude Code, Antigravity.

EXTRACURRICULAR ACTIVITIES

Team Lead & Presenter — MTM 2026 (V2): Mind to Machine AI Hackathon ↗ — November 2026
GDG On Campus · COMSATS University Islamabad, Wah Campus

Participant — DeepBuild Hackathon — October 2026
SoftTech · COMSATS University Islamabad, Attock Campus

AI/ML Team Member — 2026 - 2027
Google Developer Groups on Campus (GDGoC) · COMSATS University Islamabad, Attock Campus

Participant — MTM 2026: Mind to Machine AI Hackathon ↗ — May 2026
COMSATS University Islamabad, Wah Campus

CERTIFICATES

Google AI Essentials ↗ — May 2026
Google Career Certificates · Coursera

AI & Machine Learning Developer ↗ — Feb - April 2026
Programming Hub

Portfolio & Projects: www.abdulwahid.me