

ABDUL WAHID

AI / ML Developer | BS Artificial Intelligence Student

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Languages: English · Urdu · Punjabi

SUMMARY

Artificial Intelligence undergraduate (3.46/4.00 CGPA) with hands-on experience across 10+ academic and personal AI/ML projects, spanning data preprocessing, model training, and evaluation using Python and scikit-learn. Comfortable working across the ML lifecycle — from feature engineering and algorithm comparison to building full-stack applications that put models in front of real users. Strong foundation in Data Structures & Algorithms (DSA) and Object-Oriented Programming (OOP), with a growing focus on model explainability and production ML workflows.

SKILLS

Languages: Python, Java, C++, JavaScript, HTML, CSS, SQL

ML & Data Science: scikit-learn, XGBoost, LightGBM, SHAP, NumPy, Pandas, Matplotlib, MLflow

Frameworks: FastAPI, Flask, Next.js, React

Databases & Backend: MySQL, PostgreSQL, Supabase, Row-Level Security (RLS)

Concepts: Machine Learning, Deep Learning, Generative AI, Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Big-O Analysis, REST APIs, Model Explainability

DevOps & Tools: Git, GitHub, GitHub Actions (CI/CD), Vercel, Visual Studio Code

AI-Assisted Development: GitHub Copilot, Claude, Claude Code, Antigravity

EXPERIENCE

Machine Learning Intern

July 2026 – September 2026

Ezitech Institute (Eziline Software House)

Pindi, Pakistan

- Trained and benchmarked four classification algorithms (Logistic Regression, Random Forest, XGBoost, LightGBM) on the CDC BRFSS 2015 diabetes dataset (class-balanced 50/50 split, 70,692 records); selected LightGBM for production based on the highest AUC-ROC (0.83), exceeding the defined 0.80 threshold.
- Integrated SHAP-based model explainability (TreeExplainer) to generate clinically interpretable, patient-specific prediction justifications, exposed through dedicated /predict, /explain, and /retrain endpoints.
- Logged hyperparameters and evaluation metrics for every training run via MLflow, and built a background-task /retrain endpoint alongside a /drift-status endpoint that monitors population stability index (PSI) to flag dataset drift for retraining.

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

PROJECTS

MediSight AI — Enterprise Healthcare Risk-Prediction & Clinical Decision Support Platform

[Live](#) | [GitHub](#)

Architected and built an end-to-end clinical decision-support platform spanning 7 disease-risk models (diabetes, heart disease, stroke, CKD, liver disease, breast cancer, hypertension), combining XGBoost and LightGBM with SHAP-based explainability to deliver patient-specific, interpretable risk factors for every prediction. Engineered a FastAPI inference layer (/predict, /explain, /retrain) with MLflow experiment tracking, and a Supabase PostgreSQL backend with Row-Level Security for patient records and clinical monitoring, on a Next.js/TypeScript frontend.

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

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

[Live](#) | [GitHub](#)

Engineered the data preprocessing and model-selection pipeline for a team-built customer churn prediction system, benchmarking 6 algorithms (Logistic Regression, Decision Tree, KNN, MLP, Linear Regression, K-Means) and selecting Logistic Regression as the optimal classifier at 84% accuracy and 71% F1-score on telecom customer data.

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

Predictly:

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Built an AI-powered real estate valuation dashboard for the Pakistani housing market, engineering a localized pricing model across 6 major cities and an on-device computer-vision pipeline that scores uploaded property photos (brightness, color richness, contrast, sharpness) into a 0–100 condition rating — fully offline, with zero external API dependency.

Tech Stack: Python, Flask, HTML/CSS, JavaScript, Vercel

Smart Doctor AI:
Built an AI-powered medical assistant that maps user-described symptoms to the right specialist using a 20-term keyword-matching engine across 6 medical specializations, then generates conversational health guidance via the Gemini API — demonstrating practical NLP and LLM integration in a healthcare context.
Tech Stack: JavaScript, Node.js, Gemini API, HTML/CSS, Vercel

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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%)

COMPETITIONS AND EVENTS

Participant — MTM 2026: Mind to Machine AI Hackathon	12 May 2026
Google Developer Groups (GDGoC) · COMSATS University Wah Campus Selected to participate in this AI hackathon organized by GDGoC; earned a verified Certificate of Participation , signed by the Campus Lead and Faculty Head of GDGoC.	

CERTIFICATES

Google AI Essential Specialization	31 May 2026
Google Career Certificates · Coursera Completed Google's AI learning pathway covering practical AI skills for modern workflows; verified specialization Certificate issued by Google Career Certificates.	
AI & Machine Learning Developer	Feb - May 2026
Programming Hub Completed certification in Machine Learning with NumPy, pandas, and scikit-learn; verified Certificate of Completion issued by Programming Hub.	

Portfolio & Projects: www.abdulwahid.me