Shayan Akbar

AI Undergraduate | Python Developer | Machine Learning

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PROFILE

Bachelor of Artificial Intelligence student at the University of Wah with practical experience in Python, machine learning, recommendation systems, SQL, Java, and deployed AI applications. Completed machine-learning internship work involving classification, data preparation, model evaluation, explainability, and fraud/churn prediction, while expanding hands-on experience through AI development and an airport FIDS/AODB internship project. Builds structured, documented projects with Git/GitHub and Streamlit, with a career focus on AI engineering, machine learning, deep learning, NLP, computer vision, and practical intelligent systems.

EDUCATION

University of Wah — Wah Cantt, Pakistan
Bachelor of Science in Artificial Intelligence — *2025 - 2029 (Expected)*
3rd semester | CGPA: 3.64

F.G. Degree College for Men — Wah Cantt, Pakistan
FSc Pre-Engineering — *2023 - 2025*

AI, SOFTWARE & TECHNICAL SKILLS

Programming: Python, Java, C++, C, HTML/CSS, SQL
Machine Learning & Data: data cleaning, EDA, feature engineering, classification, model evaluation, imbalance handling, recommendation systems, TF-IDF, cosine similarity
Libraries & Frameworks: Pandas, NumPy, scikit-learn, XGBoost, Streamlit, Matplotlib
Databases & Development: MySQL, SQL, JDBC, Java Swing, OOP, file handling, collections, debugging
Tools: Git, GitHub, VS Code, NetBeans, Google Colab, Canva, Figma
Current Learning: deep learning, NLP, computer vision, generative AI/LLMs, advanced data structures and algorithms

RELEVANT EXPERIENCE

CodeAlpha — Remote
Artificial Intelligence Intern — *May 2026 - Jun 2026*
- Worked on hands-on artificial intelligence tasks involving AI model development, machine-learning workflows, and practical project implementation.
- Applied AI concepts to structured internship assignments covering model logic, data processing, testing, and technical problem solving.
- Maintained project source code and documentation using GitHub-based repositories and followed the internship's project submission and presentation workflow.

DecodeLabs — Remote
Artificial Intelligence Intern — *Jul 2026 - Aug 2026*
- Developed an AI Rule-Based Chatbot with deterministic conversation logic and a documented Streamlit workflow.
- Built an AI Tech Stack Recommender using TF-IDF and cosine similarity to generate explainable technology recommendations from user requirements.
- Applied structured Git/GitHub workflows, testing, documentation, deployment, and presentation of live AI applications.

Live Pakistan — Remote
Machine Learning Intern — *May 2026 - Jul 2026*
- Worked on machine-learning tasks covering data preparation, exploratory analysis, feature engineering, classification, and comparative model evaluation.
- Developed customer-churn and credit-card-fraud detection work using classification and anomaly-detection approaches, with attention to precision, recall, F1-score, ROC/PR performance, class imbalance, and model explainability.
- Completed a Titanic survival-prediction task using Python, Pandas, NumPy, scikit-learn, and data visualization.

ACADEMIC TECHNICAL FOUNDATION

- Database Systems: SQL schema design, primary/foreign keys, integrity constraints, relational data organization, and query-based application support.
- Object-Oriented Programming: Java development, GUI construction, JDBC integration, event handling, debugging, and collections.
- Digital Logic Design: combinational/sequential logic concepts applied through a multi-stage escape-room puzzle semester project.

TECHNICAL PROJECTS

AI Tech Stack Recommender AI / Recommendation System

Python, TF-IDF, cosine similarity, Streamlit, Git/GitHub

- Transforms user requirements into structured feature text and ranks suitable technology stacks using text-vector similarity.
- Designed for explainable recommendations with an interactive workflow, documentation, deployment, and version control.

Nova: Rule-Based AI Chatbot AI Application

Python, Streamlit, deterministic rule logic

- Built a conversational application using rule-based intent and response logic without relying on an external AI API.
- Organized the project for reproducibility with documentation, testing, deployment, and GitHub-based version control.

Customer Churn Prediction & Explainable Retention Engine Machine Learning Project

Python, classification, explainability, model evaluation

- Prepared customer data for churn modelling, compared classification approaches, and interpreted predictive factors for retention-oriented analysis.

Real-Time Credit Card Fraud Detection System Machine Learning Project

Python, RobustScaler, SMOTE/ADASYN, Random Forest, XGBoost/LightGBM, Isolation Forest/LOF

- Compared supervised and anomaly-detection approaches for imbalanced fraud data, including threshold selection and PR-AUC/ROC-AUC/F1 evaluation.
- Explored interpretability and drift-aware analysis using SHAP or permutation importance.

SkillBridgePro Java / Database Application

Java Swing, OOP, MySQL, JDBC, file handling, event handling, collections

- Developed a GUI-based career-readiness application with skill analysis and comparison features, integrating object-oriented logic with database connectivity.

Smart Hospital Management System Database Project

SQL, relational database design, primary/foreign keys, constraints

- Designed a structured hospital database with relational tables and integrity constraints including primary keys, foreign keys, NOT NULL, and UNIQUE rules.

Multi-Stage Escape Room Puzzle System Digital Logic Design Project

Digital logic, multi-stage puzzle design, LED/code output logic

- Built a semester digital-logic project implementing code-based progression and hardware-output logic in a team environment.

UI/UX & PRODUCT DESIGN WORK

OrbitCRM & CleverDash: Self-initiated responsive SaaS dashboard concepts created in Figma, with reusable components, dashboard information architecture, responsive views, and portfolio-oriented case-study presentation.

CERTIFICATION

HP LIFE - Critical Thinking in the AI Era | Credential ID: c60a6a6a-1e77-42e0-a75b-382b8e016530

ADDITIONAL TECHNICAL DEVELOPMENT

- AI/ML direction: continuing study in deep learning, NLP, computer vision, generative AI/LLMs, and advanced DSA.
- Development practice: Git/GitHub workflows, documentation, testing, deployment, issue isolation, and iterative debugging.
- Design tools: Figma and Canva for UI/UX concepts, presentation assets, and portfolio-oriented visual communication.

ONLINE PROFILE

GitHub: github.com/Shayanakbar90 | **LinkedIn:** linkedin.com/in/shayan-akbar-521854408