

AZAN ALI

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SUMMARY

Machine Learning Engineer skilled in developing predictive models and scalable ML applications. Adept in Python, SQL, NLP, and automation tools. Strong passion for building data-driven solutions that optimize performance and reduce manual efforts.

PROJECTS

Semantic Book Recommender

- Built an NLP and LLM-powered book recommendation system.
- Classified books based on emotional tone and semantic similarity.
- Designed a user-friendly Gradio dashboard for interactive book discovery.

TedPal: TED Talks Chatbot

- Developed TedPal, a RAG-based chatbot that delivers instant TED Talk
- Eliminated the need to manually search and watch full videos.
- Boosted user motivation and learning efficiency through AI-driven summaries.

Log Classification System

- Designed a hybrid classifier using Regex, Sentence Transformers, and Logistic Regression.
- Integrated DeepSeek LLM for enhanced contextual accuracy.
- Deployed with FastAPI backend and Streamlit UI for real-time log analysis.

Islamabad House Price Prediction

- Created a regression model achieving 96% accuracy for predicting house prices.
 - Applied advanced feature engineering to improve prediction accuracy.
 - Enabled intelligent property price estimation using real estate data.
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EDUCATION

Bachelor of Science in Artificial Intelligence

Sep 2023 – Present

Air University, Islamabad

- Focused coursework in Machine Learning, Deep Learning, and Data Science.
- Developing strong foundations in AI systems, model deployment, and real-world projects.

Intermediate in Computer Science (ICS)

Nov 2021 – Jun 2023

F.G Sir Syed College, Rawalpindi

- Studied core concepts of programming, data structures, and algorithms.
 - Participated in coding competitions and collaborative academic projects.
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SKILLS

- **Programming:** Python, SQL
 - **ML & Data Science:** Scikit-learn, NLP, Feature Engineering
 - **Deep Learning:** TensorFlow, Keras, CNNs, RNNs, Transfer Learning, Hugging Face Transformers
 - **Natural Language Processing:** Text Classification, Semantic Search, Sentence Transformers, LLM-based RAG Systems
 - **MLOps & Deployment:** FastAPI, Streamlit, Gradio, Docker, Git, Model Monitoring
 - **Tools & Platforms:** Google Colab, Jupyter, VS Code, GitHub Actions
 - **Soft Skills:** Analytical Thinking, Problem Solving, Clear Communication, Collaboration
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CERTIFICATIONS

- Deep Learning Specialization – Coursera
- Machine Learning with Python – IBM
- SQL for Data Analysis – Udacity
- Programming for Everybody (Python) – University of Michigan
- Building Deep Learning Applications with Keras – LinkedIn Learning