

# Muhammad Ubaid Ur Rehman

## Bachelor of Science in Artificial Intelligence | ASPIRING AI ENGINEER

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### Technical Skills

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**Programming & Deployment** | Python, SQL, Assembly, Streamlit, Flask, Github

**Machine Learning** | Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

**Tools** | Jupyter Notebook, MS Visual Studio, MS Excel

### EDUCATION

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- Air University** Islamabad, Pakistan  
Bachelor of Science in Artificial Intelligence Sep 2023 – (Expected) June 2027  
**Relevant Coursework:** Machine Learning, Information Retrieval, Probability and Statistics, Database Management Systems, Assembly, Data Structures and Algorithms
- Kallar Kahar Science College, Kallar Kahar** Chakwal, Pakistan  
FSc. Pre-Engineering Aug 2021 - June 2023

### Experience and Projects

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#### Medicine Recommendation System (ML + Flask Web App)

- Developed a disease prediction system using SVC, KNN, Random Forest, Naive Bayes, and Gradient Boosting classifiers.
  - Achieved 92% accuracy using ensemble methods and AI rule-based logic.
  - Deployed on Flask along with contextual medication, precaution, and workout recommendations
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#### Music Retrieval System – Python, Scikit-learn, TF-IDF, Cosine Similarity, Logistic Regression

- Developed a TF-IDF and cosine similarity-based song retrieval system with genre-based search and lyric/artist queries.
- Improved precision by 30% through preprocessing techniques; addressed synonym and performance limitations, proposing NLP-based solutions.

Deployed on Flask with features that include genre-based searching, along with

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#### A Python Toolkit for Probability and Statistical Analysis

- Implemented core probability and statistics concepts, including distributions, sampling, hypothesis testing, and descriptive analytics from scratch in Python.
  - Visualized statistical concepts using libraries like Matplotlib and Seaborn for clearer understanding and data insight.
  - Designed reusable functions and modules to simulate real-world statistical scenarios and validate theoretical results programmatically.
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## **Design and Implementation of a Secure Banking DBMS for Islamic Allied Bank**

- Developed a desktop banking application using C# and Windows Forms to handle transactions, account management, and issue tracking with real-time data updates across branches.
- Added biometric login and role-based access control to protect sensitive actions and improve system security.
- Improved system performance by setting up monitoring tools and regular maintenance, reducing slowdowns and increasing efficiency.

### **ADDITIONAL**

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- Solid foundation in Python, machine learning model training, image recognition, and deploying AI/ML applications using Flask and Streamlit.