

# MUHAMMAD KHURRAM AIMAD

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## Education

### Bahria University

*Bachelor of Science in Computer Science*

**Feb. 2021 – Jan 2025**

*Karachi, Pakistan*

## Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Statistics
- Data Science
- Database Management
- Software Engineering
- Computer Architecture

## Projects

### Real Estate Application(fyp) | *Flutter—python*

- Developed a comprehensive real estate mobile application using Flutter, integrated with Firebase for user authentication, data management, and storage.
- Enabled users to create and post property ads with details like price, location, and images, stored securely in Firebase.
- Created a separate admin app connected to the same Firebase, allowing administrators to review, accept, or reject property ads.
- Developed a price prediction algorithm to estimate property values, enhancing the user experience with data-driven insights.
- Created an API on flask for the machine learning model and deployed it on Heroku for real-time predictions.
- Integrated search and filtering functionalities, enabling users to efficiently navigate property listings.
- The app also includes a dynamic marketplace for viewing ads, showcasing my ability to deliver end-to-end mobile solutions with a focus on scalability, reliability, and user experience.
- Designed the app for scalability, supporting future feature expansion and a growing user base.

### Movie Recommendation system | *Python*

- Developed a movie recommendation system utilizing content-based filtering methodology.
- Encompassed data preprocessing techniques for text normalization and feature engineering.
- Included keyword extraction, genre mapping, and director/cast encoding.
- Implemented a recommendation engine employing vectorization and cosine similarity calculations.
- Designed a user-friendly interface utilizing Streamlit for seamless browsing.
- Enhanced user experience with personalized recommendations and interaction features.

### Bank System Application | *java*

- Developed Java-based software with Object-Oriented Programming (OOP) for efficient user and admin data management.
- Simulated common banking functions for user convenience.
- Tailored for bank management, enabling swift data storage, editing, and real-time balance display, optimizing operational performance.

### Predicting Credit Card Approval | *Python*

- Designed and implemented a credit card approval system utilizing Logistic Regression for predictive modeling.
- Employed Min-Max scaling to standardize input features, optimizing model performance and accuracy.
- Conducted data collection and preprocessing from the UCI repository to ensure high-quality and relevant data for training the predictive model.

## Skills

**Languages:** Python, Java, C++, SQL, Dart

**Developer Tools:** VS Code, Google Cloud Platform, Android Studio

**Technical Skills:** App development, UI designing, Machine Learning, Jupiter notebook, Api, cloud

**Interpersonal Skills:** Communication, Leadership, Project Management, Strategic Planning, Negotiation, Analyze and Problem Solving, Teamwork.

## CERTIFICATIONS

### Python for data science

**Jan 2023**

*Datacamp*