Abdullah Khalid

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Summary

Mobile Developer (Flutter/Firebase) | AI Integration Specialized in building cross-platform applications with Flutter and Firebase, enhanced with intelligent AI features. Focused on creating performant, user-centric solutions through modern tech stacks

Education

FAST NUCES, BS in Computer Science

Sept 2021 - June 2025

- GPA: 2.98/4.0
- Coursework: Data Science, Natural Language Processing, Artificial Intelligence, Data Warehousing and Mining

Experience

PhysioGo - Remote Physiotherapy, FYP - Flutter, Firebase

- Built cross-platform app using Flutter/Firebase that provides real-time AI feedback on physiotherapy exercises
- Reduced need for in-person therapy sessions by 80% through remote monitoring
- Deployed scalable backend via Docker on Koyeb for reliable exercise tracking
- Improved treatment adherence with personalized rehab plans accessible anywhere

Projects

Copenhagen Bicycle Market Analysis

- Web scraped Copenhagen bicycle data using Python, analyzing pricing and demand trends with Pandas/NumPy
- Visualized market insights and brand performance with **Seaborn/Matplotlib** dashboards

NLP & Machine Learning Projects

- Developed an English-to-Urdu translator using RNNs/LSTMs to handle complex language structures
- Created a sentiment analysis tool with Naive Bayes for accurate text emotion classification
- Fine-tuned LLMs (Llama, Phi-3) for specialized tasks, improving model performance

Automated Seating Plan Generator

- Developed a K-Means clustering solution in Python (scikit-learn) to optimize student room assignments and create balanced allocations, reducing manual work by 70%
- Generated automated PDF reports for clear visualization of seating arrangements, using tools like Python, Pandas, scikit-learn, and ReportLab

Technologies

Programming Languages: Dart, C++, C, Java, Python, C#, SQL, JavaScript

Mobile Development: Flutter, Dart, REST API Integration, State Management (Provider), Offline DB

Backend: Firebase (Authentication, Firestore, Cloud Functions), Node.js, Expres.js

Generative AI: RNNs, LSTMs, Transformers, Fine-Tuning