

MOHSIN KHAN

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Flutter & AI Engineer | Cross-Platform Mobile Developer | Python Developer | UI/UX & Digital Marketing
BS Computer System Engineering, UET Peshawar

CORE SKILLS

MOBILE DEVELOPMENT

- Flutter SDK — Expert (Dart)
- Stateful/Stateless Widgets, Provider, MVVM & Clean Architecture
- Responsive UI, Material Design, Custom Widgets & Animations
- Navigation, PageView, Carousel, Deep Linking, Dark Mode
- Cross-platform App Development

AI, MACHINE LEARNING & CLOUD AI

- LLM Integration & AI Chat Systems
- Computer Vision (YOLO, OpenCV)
- AI-powered Educational Systems
- AWS Machine Learning Engineering fundamentals (MLA-C01)
- Generative AI concepts (AWS)

FIREBASE & BACKEND

- Firebase Authentication & Cloud Firestore
- Firebase Storage, Messaging & Cloud Functions
- Firestore Security Rules & User Management
- REST API Design & Integration

PROGRAMMING LANGUAGES

- Dart (Expert), Python, C, C++
- SQL & Firestore Queries
- HTML, CSS, JSON

CLOUD & DATABASES (AWS)

- AWS Fundamentals & Core Services
- Amazon S3 — Storage Basics & Bucket Management
- Cloud Firestore, SQLite
- Firebase Platform, AWS

PYTHON DEVELOPMENT

- Python for Data Science, AI & Development (IBM)
- Core Python: OOP, Exception Handling, File I/O (TXT/CSV/JSON)
- Data Science: NumPy, Pandas
- Web Scraping: Requests, BeautifulSoup, HTML Parsing
- Currently expanding into Machine Learning with Python

COMPUTER SCIENCE FUNDAMENTALS

- DSA: Arrays, Linked Lists, Trees, Graphs, Recursion
- Sorting, Searching & Complexity Analysis
- Operating Systems: Process & Memory Management
- Computer Networks & Wireless Networking
- Signals & Systems (LTI Systems, Continuous/Discrete Signals)

SYSTEMS & TOOLS

- Git & GitHub — Branching, Merging, Version Control
- Android Studio, VS Code, Jupyter Notebook/Lab

UI/UX & DESIGN

- Mobile Interface & Dashboard Design
- Figma, Canva, PowerPoint

MARKETING & SOFT SKILLS

- Facebook & YouTube Ads, Social Media Branding

Currently working in NeuroApp — AI Solutions Platform

Technologies: Flutter, Firebase, AWS, AI APIs, LLM Integration

A software development initiative focused on building intelligent cross-platform applications powered by artificial intelligence. Serves as the platform under which products such as Sabaq Guide and Genius are developed, emphasising modern Flutter development, cloud-based architectures, Firebase services, AWS integration, and LLM capabilities.

PROJECTS

Currently expanding into Machine Learning with Python, building on AWS ML/Generative AI training, existing Python foundations, and applied AI-integration experience across the projects below.

1. Sabaq Guide — AI-Powered Educational Platform

Technologies: Flutter, Firebase, Firestore, Firebase Authentication, Firebase Cloud Messaging, Cloud Functions, REST APIs, AI Integration

A comprehensive educational platform developed for MDCAT and ETEA aspirants across Pakistan. Provides thousands of premium MCQs, full-length mock exams, intelligent quizzes, AI-powered learning assistance, community discussions, and video lectures. Students compete through leaderboards, receive instant results and analytics, and interact with an AI chatbot for academic support. The backend is powered by Firebase for authentication, real-time databases, notifications, and cloud functions, simulating real exam environments while improving preparation through personalised learning.

2. Genius — Academy Management & E-Learning Platform

Technologies: Flutter, Firebase, Firestore, Firebase Authentication, Firebase Cloud Messaging, Cloud Functions, REST APIs

A comprehensive academy management and e-learning application developed to digitally connect students with their educational institution. The platform enables students to access online MCQs, practice tests, study materials, and real-time academic updates from a single mobile application. It features secure authentication, one-device login, push notifications, and performance tracking to provide a personalised learning experience. Built with Flutter and Firebase, the application ensures real-time data synchronisation, scalable cloud infrastructure, and a responsive cross-platform user interface.

3. Track_it — Attendance & Task Management System

Technologies: Flutter, Firebase, Firestore, Provider, MVVM Architecture

A productivity application designed to manage employee or student attendance and task assignments. Supports role-based authentication, allowing administrators to create assignments, track attendance, and monitor team performance. Team members can view assigned tasks, update completion status, and receive push notifications for new assignments. Firestore stores assignment data using nested user structures, while Provider handles application state management.

4. Safe Heaven — Safety & Emergency Assistance Application

Technologies: Flutter, Firebase, Google Maps APIs (planned), Real-time Database

A personal safety application designed to provide users with quick access to emergency assistance during critical situations. Allows users to share their live location with trusted contacts, trigger emergency alerts, and maintain emergency contact information within the app, using Firebase for secure authentication and cloud storage.

5. Tailor Fit — Tailoring & Measurement Management Application

Technologies: Flutter, Firebase, SQLite, REST APIs

A digital tailoring management application developed to modernise traditional tailoring businesses. Stores customers' body measurements, order history, clothing preferences, and delivery schedules digitally, letting tailors manage orders, monitor production, calculate pricing, and organise records without paper-based systems.

6. Crowd Eye — AI Crowd Monitoring System

Technologies: Flutter, Python, YOLO, OpenCV, Flask/FastAPI Backend

An AI-powered surveillance and crowd monitoring system combining Flutter with a Python-based computer vision backend. The mobile app communicates with a YOLO object detection server to analyse live video streams, monitor crowd density, and surface real-time alerts and detection results on mobile devices.

OVERALL PROJECT EXPERIENCE

Across these projects: cross-platform mobile development with Flutter; state management via Provider and MVVM; Firebase Authentication, Firestore, Cloud Storage, Messaging and Cloud Functions; REST API integration; AI integration using LLMs and computer vision (YOLO/OpenCV); real-time data sync and push notifications; responsive UI/UX with reusable widget structures; and end-to-end product development from requirements through deployment and maintenance — now extending into AWS cloud/ML fundamentals and applied Machine Learning with Python.