

# Faizan Maqbool

[faizanmaqbool046@gmail.com](mailto:faizanmaqbool046@gmail.com) | +92 342 5957917 | LinkedIn: [Faizan Maqbool](#) | [github.com/Faizan-Maqbool](https://github.com/Faizan-Maqbool)

## SKILLS

**Languages:** JavaScript, Dart, Python, Java, MATLAB, C++, C#, HTML/CSS .

**Frameworks & Libraries:** React.js, Node.js, Express.js, Flutter, MongoDB ,TensorFlow, Keras, Pandas, NumPy.

**Tools:** Jupyter Notebooks, AWS, Git, Visual Studio Code, IntelliJ IDEA, Android Studio, Firebase .

## EDUCATION

**COMSATS University Islamabad**

**B.S. in Computer Science** — Expected Feb 2026

- **Concentrations:** MERN Stack, Flutter, ML, AI, Data Science.
- **GPA:** 3.43 /4.00
- **Related Coursework:** Advance Web Technologies, Mobile app Development, DevOps, Machine Learning, Artificial Intelligence, Artificial Neural Network, Statistics, Data Structures & Algorithms, Object-Oriented Programming, Design and Analysis of Algorithms.

## PROJECTS

### CardioLink – AI-Based Cardiac Health System

*Technologies: React, Flutter, Node.js, Express, Socket.io, MongoDB, JWT, Python, TensorFlow, OpenCV.*

- Developed a full-stack AI-based healthcare app to predict cardiac conditions (e.g., angina, MI) using CNNs trained on ECGs, echo scans, and heartbeat audio with 92% model accuracy.
- Integrated real-time chat (Socket.io), secure JWT authentication, AI chatbot, health tracker, and video consultation features, supporting 500+ active users.

### Studify – AI-Powered Productivity App

*Technologies: Flutter, Dart, Firebase, Gemini API, Google ML Kit*

- Developed a mobile productivity app for students with smart AI chat, real-time generated quizzes, OCR, and voice search using ML Kit and Gemini API.
- Enabled secure offline PDF generation with encryption and scaled data storage to handle 10,000+ records via Firebase.

### Realtime Chat Application

*Technologies: MERN Stack, Socket.io, JWT, Zustand, TailwindCSS, DaisyUI*

- Built a responsive, real-time chat app with MERN stack featuring secure login/logout (JWT) and achieving instant message delivery under 100ms using Socket.io.
- Managed global state via Zustand and designed UI that resulted in 30% improved mobile retention through TailwindCSS.

### YOLO-Based Car Detection System

*Technologies: Python, OpenCV, YOLOv5, NumPy*

- Built a real-time vehicle detection system processing 15+ FPS live video, leveraging YOLOv5 and OpenCV.
- Tuned model parameters, boosting detection precision by 18% over baseline in testing scenarios..

### Aqueous Solubility Prediction using Linear Regression

*Technologies: Python, Scikit-learn, Pandas, Google Colab*

- Implemented a regression model with  $R^2$  score of 0.83, predicting logS values from molecular descriptors (Delaney dataset).

## Certifications & Professional Development

### CCNAv7: Introduction to Networks

**Cisco Certified Network Associate (CCNA)**

- Acquired practical skills in routing, switching, IP addressing, and core networking concepts through Cisco's industry-aligned training program.

## VOLUNTEERING

Assistant Volunteer – Industrial Liaison Cell (ILC)

COMSATS University Islamabad- June 2023-2024

## Freelance & Teaching Experience

Programming Tutor (Remote – Freelance)

June 2023 – Present

- Tutored 30+ students remotely in programming, improving average coding proficiency by 40%.