

Faizan Maqbool

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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.
- Turned 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 R² 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%.