Muhammad Mobeen

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EDUCATION

FAST National University of Computer & Emerging Sciences   **Islamabad, Pakistan**
B.S. in Computer Science   *Expected Graduation, May 2025*
- **GPA:** 3.48/4.00
- **Related Coursework:** Data Structures, Database Systems, Digital Image Processing, Design & Analysis of Algorithms, Artificial Intelligence, Object-Oriented Programming, Statistical Modelling.

PROJECTS

MHH Housing   **Islamabad, Pakistan**
Housing Society Management System   *March 2024 – May 2024*
- Designed a web-based solution with the MERN stack, facilitating efficient home transactions and management in a housing community; optimized user experience and boosted user retention through intuitive design and functionality.
- Implemented online utility bill payment and maintenance requests, reducing in-person interactions by 50% and boosting efficiency.
- Deployed housing renting and purchasing features through an online payment portal.

Glaucoma Detection   **Islamabad, Pakistan**
Eye Disease Detection Using Machine Learning   *April 2024 – May 2024*
- Defined and trained a Convolution Neural Network (U-NET) on Optical Coherence Tomography (OCT) scans.
- The model achieved a 96% accuracy on the test data.
- Segmented the Optic cup and Optic disc to find the Cup to Disk Ratio.

Flex Portal   **Islamabad, Pakistan**
Full Stack Academic University Management Website   *April 2023 – May 2023*
- Used ASP.NET framework to develop a full stack academic website. The Website provided different views for 3 different types of users: student, faculty and admin.
- Added faculty members and students functionality of marking/viewing attendance and evaluations.

Honors

DataQuest   **Islamabad, Pakistan**
AirTech '24, AIR University   *February 2024*
- First place in an Inter-University Data Science competition at AIR University.
- Preprocessed a large dataset and trained a machine learning model with 94% accuracy to predict the outcome of the weather based on several factors such as wind and humidity.

Speed Programming   **Islamabad, Pakistan**
Science Bee X, Nust   *January 2023*
- First place in an Inter-University Speed Programming competition held in NUST Islamabad.
- Our team got the highest score in a 3 hour quiz with 40+ coding problems on HackerRank.

ACTIVITIES

FAST National University of Computer & Emerging Sciences   **Islamabad, Pakistan**
Teaching Assistant for CS 2009 (Design & Analysis of Algorithms)   *August 2023 – January 2024*

FAST National University of Computer & Emerging Sciences   **Islamabad, Pakistan**
Teaching Assistant for CS 2001 (Data Structures)   *January 2023 – May 2023*

SKILLS

Programming Languages: JavaScript, Python, C++, C, C#, Java
Web technologies: HTML, CSS, ReactJs, Bootstrap, Express JS, Node js
Python Libraries: Numpy, Pandas, Tensorflow, Pymc5, Scipy, Opencv
Databases: MySQL, Microsoft SQL server, MongoDB, OracleDB
Miscellaneous: Git/Github, Web App Development, Convolution Neural Networks

My Portfolio website: https://mobeen0.github.io/Portfolio/