

Hussnain Ali Mazhar

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EDUCATION

UET LAHORE

BS IN COMPUTER ENGINEERING

June, 2025 | Lahore, Pakistan

CGPA: 3.08 / 4.0

GOVT. ISLAMIA COLLEGE

FSC PRE-ENGINEERING

October, 2021 | Lahore, Pakistan

Marks: 1080 / 1100

LINKS

Mail:// mhussnainali961@gmail.com

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COURSEWORK

Data Structures And Algorithms

Object-Oriented Programming

Programming Fundamentals

Database Systems

Web Development

Computer Networks

Operating Systems

Machine Learning

Embedded Systems

Software Engineering

SKILLS

PROGRAMMING

Java • Python • C • C++ • Javascript

SQL • HTML • CSS

FRAMEWORKS

React • Node.js • Hostinger • AWS

DEVELOPER TOOLS

Git • Github • VS Code • Visual Studio •

PyCharm • IntelliJ • Eclipse

SOFT SKILLS

Leadership • Team Collaboration •

Communication • Problem Solving •

Adaptability

EXPERIENCE

TECHNOHACKS | WEB DEVELOPEMENT INTERN

June, 2023- August, 2023 | Lahore, Pakistan

- Learned essential web development fundamentals.
- Explored advanced web development frameworks and libraries.
- Gained a deeper understanding of front-end development.
- Honed problem-solving and debugging skills.

PROJECTS

EMG-BASED FATIGUE DETECTION | FINAL YEAR PROJECT

Python, Shimmer3 EMG, ML | September, 2024 – June, 2025 | Lahore, Pakistan

- Designed and implemented a predictive system to detect muscle fatigue in surgeons using EMG signal analysis.
- Collected and processed EMG data using Shimmer3 sensors with standardized motion protocols and real-time signal monitoring.
- Trained AI/ML models (SVM, CNN, LSTM, Random Forest) to classify fatigue levels based on EMG signal patterns.
- Developed a real-time monitoring prototype to support decision-making during surgeries.
- Collaborated with surgeons for domain-specific feedback and aligned sensor placement protocols.

CAR PARKING SYSTEM | SEMESTER PROJECT

Python, Pandas, tkinter | July, 2022 | Lahore, Pakistan

- Developed a user-friendly graphical interface for car parking management.
- Implemented efficient algorithms to optimize car parking allocation.
- Utilized Python's object-oriented programming features for modular and maintainable code.
- Created an interactive visualization of the car parking system.

BANK MANAGEMENT SYSTEM | SEMESTER PROJECT

Java, JavaSwing | November, 2022 | Lahore, Pakistan

- Designed a secure and reliable banking management system to handle customer accounts and transactions.
- Implemented robust authentication and authorization mechanisms to protect sensitive financial data.
- Utilized Java's enterprise-level features to ensure scalability, performance, and maintainability.
- Developed a user-friendly interface for seamless account management and transaction processing.