Mahnoor Irfan

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EDUCATION

Information Technology University   Lahore, Pakistan
Bachelor of Science in Computer Science - 7th Semester   *Aug. 2022 – present*

Lahore Grammar School   Lahore, Pakistan
Alevels: Full merit based scholarship - Both years of Alevel   *Aug. 2020 – May 2022*

Lahore Grammar School   Lahore, Pakistan
Olevels: 10A*s and As - High Achiever's Award for academic excellence   *Aug. 2017 – May 2020*

PROJECTS

Jewelry Image Classifier | *Python, TensorFlow, CNN, Image Processing, Data Augmentation*   May 2025
- Built a custom CNN model to classify 5 types of jewelry using a self-created dataset of 500 labeled images; achieved 82% training and 78% validation accuracy
- Preprocessed data using normalization, resizing, and data augmentation techniques (rotation, flipping, zoom) to improve model robustness
- Incorporated dropout and batch normalization layers to reduce overfitting and enhance performance

Facial Emotion Detection System | *Python, Machine Learning, OpenCV, TensorFlow, Keras, CNN*   March 2025
- Developed a real-time intelligent system capable of analyzing facial expressions and detecting emotional states in real-time from live webcam input with 62% accuracy

Airbnb Clone | *MERN Stack*   December 2024
- Implemented JWT-based user authentication with secure login and signup ensuring responsiveness and user friendly interface
- Developed an admin panel and RESTful APIs for managing property listings and booking data with real-time database integration via MongoDB Atlas and Mongoose

Responsive Portfolio Website | *HTML,CSS,Javascript*   October 2024
- Integrated multi-language support (Arabic English), dynamic navigation, and engaging video content

Book Reading Tracker | *MERN Stack*   September 2024
- Implemented a responsive React frontend with a user-friendly dashboard displaying book details using efficient CRUD operations,and a minimal, intuitive UI
- Built secure RESTful APIs using Node.js and Express, integrating MongoDB for real-time data management

Quranic Insights Website | *MongoDB, Node.js*   April 2023
- Built a full-stack web application to explore and manage Quranic content using Node.js and MongoDB
- Applied core database concepts like schema design, data modeling, and efficient query optimization
- Developed RESTful APIs for seamless data retrieval and CRUD operations

Ludo Game | Snake Game | Chess | Shogi | *C++*   February 2022
- Built a console-based Ludo-inspired game with unique gameplay rules using advanced OOP principles like inheritance, polymorphism, and type casting
- Implemented game reload and restart features for improved user experience

EXPERIENCE

Front-end Intern   June 2022 – August 2022
Echno Gaming Solutions   *Lahore, Pakistan*
- Worked as part of a 5-person team; Resolved multiple bugs across 3 driving games, enhancing gameplay
- Improved the graphical user interface (GUI) for better usability and engagement, resulting in a 12 percent increase in user screen retention

TECHNICAL SKILLS

Languages and Databases: C, C++, C, Python, HTML, CSS, JavaScript, MySQL, MongoDB Atlas
Frameworks: React, Node.js, WordPress
Developer Tools: Git, GitHub, VS Code, Visual Studio, Linux, Fiji (ImageJ), Unity
Other Tools: Canva(Graphic Design), Video Editing, Medical Image processing