MUSTAFA IRFAN

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PROFESSIONAL SUMMARY

Full-Stack Developer with hands-on experience in MERN stack**,** Python, and both frontend and backend development. Currently learning to build and optimize RESTful APIs and backend systems. Skilled in debugging, problem-solving, and ensuring efficient data handling. A strong collaborator committed to delivering innovative, high-quality solutions with solid system performance.

EDUCATION

FAST-NUCES Islamabad   **BS Computer Science**   **Sep 2021 – Jan 2026**

PROJECTS

vocalConcierge – Hotel Reception Voice Bot | FYP | Python, MERN   **Jan 2025**
- Designed and developed a **voice-enabled hotel reception bot** that automatically answers incoming calls and caters to guest inquiries using **speech recognition** and **NLP (Natural Language Processing)**.
- Implemented real-time voice interaction to handle tasks such as **room availability**, **booking assistance**, and **general hotel information**, reducing the need for manual front-desk involvement.

AI Based Time Table Scheduler | Python   **Apr 2024**
- Developed an **AI-based timetable scheduler** using **Python**, implementing **Genetic Algorithms** and other optimization techniques to automatically generate conflict-free and efficient schedules.
- Designed the system to consider multiple constraints such as **teacher availability**, **room capacity**, and **course distribution**, ensuring optimal resource utilization.

Cricket Management System| MERN Stack   **Apr 2024**
- Built a **Cricket Management System** using the **MERN stack**, creating an interactive platform where users could access **live cricket updates** via external APIs and manage personal profiles.
- Implemented **user authentication**, **community features**, and **real-time data fetching** to enable seamless interaction and engagement among cricket enthusiasts.

ShopVerse – Online Marketplace | MySQL, MERN   **Dec 2023**
- Developed **"ShopVerse"**, an **online marketplace management system** with a **WinForms-based frontend** and **MySQL backend**, enabling users to manage products, orders, and customer data.
- Implemented features like **user registration**, **product listings**, and **transaction tracking**, ensuring smooth interaction between the interface and database with a focus on **data normalization**.

TECHNICAL SKILLS

Frameworks/Libraries	Assembly, Node.js, React.js, Express, NumPy, Pandas, Unity
Languages	Python, C/C++,C#, JAVA, SQL(MySQL), PostgreSQL, WinForms, MongoDB
Others	Git, AWS, SCRUM, Time Management, Problem Solving, Creativity, Communication

PROFESSIONAL EXPERIENCE

NESCOM | Oracle Database Administrator Intern   **Jul 2024 – Aug 2024**
- Assisted in managing and maintaining **Oracle databases**, ensuring data integrity, availability, and security.
- Gained hands-on experience with **SQL scripting**, **user account management**, and database **troubleshooting**.
- Performed **backup and recovery operations**, monitored system performance, and helped optimize query efficiency.