

Muhammad Tayyab

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<https://tayyab01-portfolio.vercel.app/>

Introduction

Performance-driven Full Stack Developer skilled in building AI-powered applications. Developed and integrated machine learning models into full-stack web solutions using the MERN stack. Acknowledged for reliability and problem-solving. Proficient in React.js, Node.js, Express.js, MongoDB.

Experience

- **Web Developer — CodSoft, Lahore** *August 2023- October 2023*
 - Pitched feature improvements to the developer team, contributing to the enhancement of applications and user experience.
 - Developed user interfaces using modern JavaScript frameworks, HTML5, and CSS3, ensuring a contemporary and seamless user experience.
 - Demonstrated the ability to prioritize and solve multiple tasks concurrently.
- **Teaching Assistant — University of Engineering and Technology, Lahore** *October 2023 – April 2024*
 - Facilitated comprehension of course material for first year students through clear explanations and active engagement.
 - Fostered an inclusive learning environment by conveying complex concepts with clarity and collaborating seamlessly with professors and peers.
 - Managed grading, student progress tracking, and logistical coordination

Skills

- **Backend :** Node.js, Express.js
- **Frontend:** React.js, Next.js, HTML, CSS, Tailwind CSS
- **Database :** MongoDB, Firebase
- **Machine Learning:** TensorFlow, NumPy, Pandas, Scikit-learn
- **Version Control :** Git, GitHub, Gitlab
- **Tools & Technologies:** Docker, Postman, Thunder Client, Firebase, Redux Toolkit, Vercel, Netlify
- **Soft Skills :** Strong communication, Problem Solving, Leadership, Public Speaking, Project Management, Creativity
- **Others :** Hosting & Deployment

Academic Projects

- **Real Time Sign Language Translation to Text and Speech (Machine Learning Project)**
 - Developed a real-time sign language translation system using ML & DL models
 - Implemented CNN, LSTM, RNN, and traditional classifiers for high accuracy.

- Achieved 99.7% accuracy with CNN, 99.3% with Random Forest, and 98.7% with Decision Tree.
- Built using Python, TensorFlow, OpenCV, and Scikit-Learn for real-time processing
- Github : <https://github.com/tayyab-10/Artificial-Intelligence-Lab/tree/main/Final%20Project>
- **Healthcare Data Analysis (Database Project)**
 - Designed database using MS SQL Server.
 - Frontend was managed using React Js, Ant Design, Tailwind CSS and Redux Toolkit Query (RTK).
 - Backend was constructed using Node Js and Express Js.
 - GitHub: <https://github.com/tayyab-10/Hospital-Management-System/tree/master>
- **Teacher Evaluation Assistant (Database Project)**
 - Established database using MS SQL Server.
 - Frontend was done using Winforms.
 - Backend was executed using C#
- **Mini-Excel (DSA Project)**
 - Created a mini-excel tool utilizing advanced data structures and algorithms in C++.
 - Supported spreadsheet operations including cell computation and data visualization using Quadruple Linked List.
 - GitHub: <https://github.com/tayyab-10/Mini-Excel>
- **Notepad (DSA Project)**
 - Developed a notepad application focusing on efficient data structures and algorithms in C++.
 - Enhanced text processing and management functionalities using Doubly Linked List.
 - GitHub: <https://github.com/tayyab-10/Notepad>
- **Flight Reservation System (OOP Project)**
 - Engineered a flight management system using Object-Oriented Programming principles such as Polymorphism, Inheritance, Association/Composition, Abstraction and Encapsulation.
 - Frontend was built in Winforms.
 - Backend was constructed in C#
 - GitHub: <https://github.com/tayyab-10/2nd-Semester-Final-Projects->

Self Projects

- **Campus Link (Full-Stack AI-Driven Application)**
 - Developed Campus Link, a platform for society & event management

- Enabled Ai-Driven event creation, Automated task assignments, and feedback collection.
- Built using React.js, Node.js, Redux, MongoDB, and Firebase.
- Implemented real-time updates & user role management for societies.
- GitHub: <https://github.com/tayyab-10/Campus-Link>
- **Centralized Club Management System (MERN Project)**
 - Built a Centralized Club Management System for streamlined club operations.
 - Enabled event scheduling, member management, and task delegation.
 - Developed using React.js, Node.js, Express.js, MongoDB, and Redux Toolkit query.
- **NoteVault (MERN Project)**
 - Established database using MongoDB Compass.
 - Frontend was done using React.js, Context API, Material UI, AntDesign
 - Backend was executed using Node.js and Express.js.
 - GitHub: <https://github.com/tayyab-10/Note-Vault/tree/master>
- **DocuVerse (MERN Project)**
 - Established database using MongoDB Compass.
 - Frontend was done using React.js, Context API, Material UI, Ant Design, Tailwind CSS
 - Backend was executed using Node.js, Express.js and Socket.io
 - GitHub: <https://github.com/tayyab-10/DocuVerse/tree/master>
- **Flixify (React Js Project)**
 - Initiated a platform to view detailed information about movies, including ratings, runtime, genres, and release date.
 - App was made using React Js, Material UI, Tailwind CSS, ALAN AI and Redux Toolkit Query (RTK).
 - API used themoviesdbapi for fetching movies and handling user authentication.
 - Live Preview : [Flixify](#)
- **HeadlineHub (React.js Project)**
 - Frontend was done using React.js, BootStrap
 - Fetched news from an external API
 - GitHub: <https://github.com/tayyab-10/HeadlineHub-/tree/master>

- **University of Engineering and Technology, Lahore**
 - *BSc Computer Science Expected in September 2026*
- **Ideal Group of Colleges, Sheikhpura**
 - *FSc Pre-Engineering (2020 – 2022)*
- **Punjab Public School**
 - *Matric (2018 – 2020)*

Achievements and Certifications

- Certified Software Engineer – **IBM**
- Certified React.js Developer - **META**
- Certified SQL Developer - **HackerRank-Advanced**
- JavaScript-Intermediate – **HackerRank**
- **Co-Director Google Developer Group on Campus** **University of Engineering and Technology, Lahore**
 - Led the **Development Team**, managing technical projects and mentoring students.
 - Collaborated with industry experts to host tech talks and hands-on coding sessions.
 - Guided students in open-source contributions and hackathon participation.
- **Public Relations Executive, ACM Student Chapter** **University of Engineering and Technology, Lahore**
 - Managed **external communications** and built partnerships to enhance ACM's visibility.
 - Organized and promoted tech events, seminars, and coding competitions on campus..
 - Collaborated with teams to drive student engagement and community growth.
- **Event Organizer, Department of Computer Science** **University of Engineering and Technology, Lahore**
 - Spearheaded the organization of **ITEC 2025**, the **flagship event** of the department, along with **Dev-Connect 2025** and **All Sessions Get-Together 2025**.
 - Managed event planning, coordination, and execution, ensuring smooth operations.
- **Table Tennis Champion | Rival Champs Tournament 2025**
 - Secured 1st place in the **Rival Champs Table Tennis Tournament** held at Department of Computer Science, UET Lahore.
 - Competed against top players, demonstrating strategic gameplay, agility, and resilience.

Languages

- **Urdu** : Native
- **English** : Intermediate
- **Punjabi** : Fluent