Eraj Tanweer

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About Me

Enthusiastically dedicated to lifelong learning, I thrive on expanding my knowledge and skills. With unwavering self-confidence and adept time management, I flourish equally in solo pursuits and team collaborations. My track record as a reliable team player is a testament to my seamless adaptability and effective communication skills. Approaching tasks with a pragmatic mindset, I consistently prioritize tangible results. Proficient in an array of programming languages including C++, Python, HTML, CSS, JavaScript, and Java, I infuse my work with genuine passion for technology. This unique fusion of technical prowess, collaborative zeal, and insatiable curiosity positions me as an invaluable addition to any team.

Education

NED University of Engineering and Technology Karachi, Pakistan

BESE – Bachelors of Engineering in Software Engineering CGPA(3 semesters): 3.87 2022-2026
Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Web Engineering, Database Management Systems

BAMM PECHS Govt. College for Women Karachi, Pakistan

Intermediate 2020-2022

PECHS Girls School Karachi, Pakistan

Matriculation 2010-2020

Internship Experience

Jinnah Lincoln Foundation
Machine Learning Intern Sept 2023 – Dec 2023 | USA

- Gained practical experience in the field of machine learning and data science through an internship at JLF.
- Assisted with various data science tasks, including data analysis, model development, and project implementation.

EvantageSoft Private limited
Java Springboot Intern Aug 2023 – Sep 2023 | Khi, Pakistan

- Gained hands-on experience in Java development by creating APIs using Spring Boot.
- This internship at EVS provided valuable insights into the software development lifecycle and API design principles.

ICONICS 2022

KODERZ KOMBAT – First Position NED University of Engineering and Technology

- Koderz Kombat comprised of two major parts: Building a chatbot for marketing purposes and coming up with an efficient and cost-effective solution for electricity usage using software. We, as a team, devised a well-structured approach in solving both problems hence winning the competition.

Projects

Quality Management System

In this project, I'm developing a web application to serve as a Quality Management System (QMS) for teaching, built with Node.js, Express.js, React.js, and MySQL. This QMS aims to enhance the quality and consistency of education by facilitating both faculty development and self-assessment.

NFL Big Data Bowl 2024

I contributed to the NFL Tackling Efficiency Project in Python by developing new metrics for tackling evaluation. Analyzed NFL data (Weeks 1-9, 2022) and built machine learning models (regressions, deep learning) to understand factors impacting tackling success. It enhanced my skills in sports data and real-world athletic applications of machine learning.

School Management System

I developed a console-based School Management System in C++ to demonstrate object-oriented programming (OOP) principles and gain experience in data management within an educational context. I used SQLite as the database for the project.

To-do List app

I built a fully functional and responsive To-Do List web application using HTML, CSS, and JavaScript to enhance user experience and practice front-end development skills. The app utilizes CSS frameworks for a better user experience and core JS features to enhance the common mechanism.

Personal Portfolio

I built an interactive personal portfolio website (HTML, CSS, JS) to showcase skills and experience in a visually appealing way. User-friendly design allows visitors to easily explore projects and qualifications, highlighting my capabilities to potential employers or collaborators. The website is linked here.

Disease detection System

I developed a disease detection system using Convolutional Neural Networks (CNNs) in Python to analyze chest X-rays. This system focuses on identifying the presence of pneumonia and tuberculosis. By leveraging deep learning, the project aimed to contribute to the field of medical diagnosis by exploring the potential for faster and more accurate detection of these prevalent respiratory illnesses using chest X-rays.