Muhammad Mobeen

AI/ML Engineer

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EXPERIENCE

AIM Lab   **Islamabad, Pakistan**
Team Lead   *May 2024 – July 2024*
- As a junior year student co-lead a team of 5 sophomores in a research project to detect fundamental human emotions through video and speech.
- Integrated RAVDESS and SURREY audio datasets to train custom CNN Models from scratch which achieved 90% accuracy on test data.
- Implemented Live user audio detection and emotion feedback system utilizing the trained model.
- Mapped the basic detected emotions to soft skills such as openness, extrovertness and empathy.

KK Solutions   **Islamabad, Pakistan**
Software Engineer Intern   *May 2023 – July 2023*
- Developed responsive web pages using HTML, CSS, and JavaScript, enhancing user experience and accessibility.
- Built and integrated backend services and RESTful APIs to support non-static content and data management, improving application functionality.
- Employed React JS components and hooks to create interactive and efficient frontend applications, boosting performance and maintainability.

PROJECTS

Choosedle   **Islamabad, Pakistan**
Theme based Wordle   *May 2024 - June 2024*
- Designed and deployed a Full Stack application solution for wordle inspired games focusing on different themes such as words, songs, movies and TV shows.
- Utilized popular API such as the Spotify API and Words API for daily queries of random songs and words.
- Cached daily results on mongodb cloud database resulting in only 2 API requests per day, improving site responsiveness by 80%.

MHH Housing   **Islamabad, Pakistan**
Housing Society Management System   *March 2024 - May 2024*
- Designed a web-based solution with the MERN stack, facilitating efficient home transactions and management in a housing community; optimized user experience and retention through intuitive design and functionality.
- Deployed online utility bill payment and maintenance, reducing in-person interactions by 50% and boosting efficiency.
- Implemented the Model-View-Controller (MVC) design pattern, to ensure efficient and maintainable codebase living up to industry standards.

SKILLS

Programming Languages: Python, JavaScript, Java, C++, SQL
Development Tools: Git, Visual Studio Code, Anaconda, Jupyter Notebook
Frameworks/Libraries: TensorFlow, Scikit-learn, Pandas, Numpy, Ccipy, Flask, React, Node js
Databases: MySQL, MongoDB, Oracle, Microsoft SQL Server, PostgreSQL

EDUCATION

FAST National University of Computer & Emerging Sciences   **Islamabad, Pakistan**
B.S. in Computer Science   *Expected Graduation, May 2025*
- **GPA:** 3.48/4.00
- **Related Coursework:** Data Structures, Database Systems, Design & Analysis of Algorithms, Object-Oriented Programming, Software Design & Analysis, Artificial Intelligence.

OTHER

Certifications: Crash Course on Python (2022), Using Python to interact with OS (2023), Version Control with Git and Github (2023), Introduction to Data Science in Python (2023), Applied Plotting and Charting with Python (2023)
Activities: Teaching Assistant for [CS-2001] Data Structures ('*A*') and [CS-2009] Design & Analysis of Algorithms ('*A+*')
Awards & Honors: Winner NUST Science Bee X Speed Programming, Winner AIRTECH '24 DataQuest, Dean's List