Tayyab Riaz

Data Scientist

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Motivated Data Scientist with expertise in machine learning, deep learning, and computer vision. I excel in designing, developing, and deploying high-performance models and innovative AI solutions. I aim to leverage my technical skills and problem-solving abilities in a dynamic environment to drive impactful business outcomes.

Skills

Tools and Languages	Python Programming, Machine Learning, Deep Learning, Computer vision, Pytorch, Tersorflow, Jupyter Notebook, C++, Java, Git, LaTeX, MarkDown, PHP, Docker, AWS, CICD, gitLab, Power BI
Quantitative Research	Mathematical optimization, Mathematical Modeling, R, MySQL
Communication	Urdu, Punjabi, English

Technical Experience

Real-Time Driver Drowsiness Detection System
Project   November 2023 — January 2024

- Developed a real-time driver drowsiness detection system using computer vision techniques.
- Designed an alarm mechanism to alert the driver upon detecting drowsiness.
- Integrated the solution with a camera for continuous monitoring while driving.
- Implemented facial landmark detection to monitor eye closure and head position.
- Implemented facial mask detection

Potato Leaf Disease/Classification
Project   March 2024 — April 2024

- Cleaned and pre-processed image data to improve model training quality.
- Designed and trained a CNN model, achieving **98%** accuracy in disease classification.
- Optimized model performance through hyperparameter tuning and validation.
- Developed a frontend web application for real-time disease detection and user interaction.

Cervical Cancer Detection
Project   August 2024 — October 2024

- Designed and implemented a deep learning pipeline for cervical cancer classification using three CNN models.
- Developed an ensemble learning approach to combine model predictions, achieving 96% accuracy.
- Preprocessed and augmented medical image data to enhance model generalization.

Self Supervised Salient Object Detection
Final Year Project   November 2024 — Present

- Developed a salient Object detection system using deep learning and attention mechanisms.
- Implemented advanced feature extraction and model optimization techniques.
- Designed a web interface to test model working in the real world.

Education

Bachelor of Data Science, *The GIFT University, Gujranwala*	2021 - 2025
Intermediate in Computer Science *Pubjab College Sahiwal*	2019 - 2021

Activities

Short Course, Introduction to Data Science in Python, by University Of Michigan	October 2023
Short Course, What is Data Science, by IBM	September 2023
Short Course, Python for Data Science, AI & Development, by IBM	August 2023