ZURIA TAHIR

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Technical skill

Languages & Tools: Python, SQL, Power BI, Jupyter
Specialties: Machine Learning, AI, Computer Vision, Data Analysis, Data Visualization
Frameworks/Libraries: PyTorch, Tensorflow ,scikit-learn,OpenCV, NLTK
Others: Web Development (HTML/CSS), Google Sheets

PROJECTS

KSFormer-Skin lesion Segmentation.   **June 2025**

- Developed an automated skin lesion segmentation system using deep learning to support early detection of skin diseases.
- Achieved Dice scores of 91.74% and 96.58% on both datasets , with high IoU, precision, and recall, ensuring robust and accurate segmentation.
- Deployed the solution as a Flask-based web application for skin lesion image upload, automated segmentation
- Technologies: Python, TensorFlow/PyTorch, OpenCV, Flask, MySQL, HTML/CSS, JavaScript.

Motor Fault Classification using Machine Learning.Github Link   **Feb 2024**

- Built an ML pipeline on time-series motor current data using PCA-based feature reduction to classify healthy vs faulty states of motors.
- Technologies: Python, scikit-learn, Pandas

Image Classification Flask App.Github Link   **March 2024**

- Developed a web app using Flask and a pre-trained Keras model (CIFAR-10) to classify uploaded images into 10 categories in real-time.
- Technologies: Python, Flask, Keras, HTML/CSS

Image Processing Techniques.Github Link   **Dec 2024**

- Implemented classical computer vision techniques including Canny Edge Detection, Otsu's Thresholding, and HOG feature extraction in Python.
- Technologies: Python, OpenCV, NumPy, Matplotlib

EDUCATION

Bachelor of Data Science, The GIFT University, Gujranwala
                                                                          Dec 2021 – Sep 2025

CERTIFICATION

NumPy Masterclass — Udemy (2024). View Certificate
CSS, JavaScript, PHP & Python Programming — Udemy (2024). View Certificate
Google Sheets — Google Cloud (2025). View Certificate
Data Science & Analytics—HP life(2025). View certificates
Effective Leadership — HP life(2025). View certificates