# **ZURIA TAHIR**

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## Technical skill

Languages & Tools: Python, SQL, Power BI, Jupyter

**Specialties:** Machine Learning, Data Analysis, Data Visualization **Frameworks/Libraries**: NumPy, Pandas, Matplotlib, scikit-learn **Others:** Web Development (HTML/CSS/JS), GitHub, 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**

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**

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

# **EDUCATION**

Bachelor of Data Science, The GIFT University, Gujranwala

Dec 2021 - Sep 2025

#### CERTIFICATION

# NumPy Masterclass — Udemy (2023)

Learned NumPy arrays, indexing, reshaping, and numerical operations for data analysis in Python. View Certificate

CSS, JavaScript, PHP & Python Programming — All in One Course — Udemy (2024)

Covered front-end development (HTML, CSS, JavaScript) and back-end basics using PHP and Python. View Certificate

### Google Sheets — Google Cloud (2025)

Certification in spreadsheet operations, data organization, and formulas. View Certificate