# 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