

## FAIZAN SOHAIL

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### Education

**National University of Science and Technology**  
*BE Computer Engineering*

Islamabad, Pakistan  
2020-2024

### Professional Experience

#### RISETECH

Islamabad, Pakistan

##### Machine Learning Intern

June 2023 – Aug 2023

- Deep Learning: Designed a GAN to learn 3D transformation from label-free unstained Reflectance Confocal Microscope image stack to the acetic acid virtually stained tissue image. Attention U-Net Architecture for the generator network and a CNN was used as the discriminator network.

#### NIDI Skin

New York, NY (Remote)

##### Research Associate

June 2023 – May 2024

- Working on deep-learning based frameworks for digital staining of skin using Dual Contrastive Learning GANs.
- Trained a segmentation model for analysis of cancerous region and skin tissue layer using transformers, achieving a mean IoU of 86% and mean accuracy of 92%.

#### WALIMAX LIMITED

England, UK(Remote)

Retail sale via mail order houses or via Internet

##### Project Manager

Feb 2021 – June 2024

Selenium Automation - Leveraged coding expertise to automate tasks, enhancing efficiency and enabling strategic decision-making in e-commerce startup.

### Academic Experience

#### Final Year Project

Using GANs to automate the staining and segmentation of RCM images that can be then used to diagnose skin cancer.

- **Stained RCM Images:** Obtained greyscale RCM images and used CycleGAN to stain them to provide insight and assist histopathologists to diagnose if skin cancer is present or not.
- **Segmented Masks and Fungi Detection:** Used a Segformer to segment PAS stained images getting a mean IoU of 86% and mean accuracy of 92% and using image processing to detect the fungal infection.

#### Selenium Automation

The script involves interacting with web pages, downloading files, processing data, and uploading the processed data to Google Sheets.

##### Lead Developer

It involves web scraping, file handling, data manipulation, and integration with Google Sheets API for data storage and analysis.

### Extracurricular & Volunteer Experience

#### Winter Fiesta

Islamabad, Pakistan

- *Security Head:* Ensured seamless event operations and attendee safety.

#### COMPPEC Winner 2024

Islamabad, Pakistan

- *Pakistan's largest National tech competition at NUST College of EME*

#### Best FYP 2024

Islamabad, Pakistan

- *Winner of Rector's gold medal for best Final Year Project*

### Skills

#### Programming Languages:

Python, C++, MATLAB, MYSQL

#### Selenium Automation:

Webdriver, Pandas, googleapiclient, selenium

#### AI and Data Science Fundamentals:

TensorFlow, PyTorch, Scikit, Numpy