Mariamm Mustafa

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ABOUT ME

A recent graduate in **Data Science** from **GIFT University**, I bring a solid foundation in **data analysis**, **machine learning**, **deep learning** and **computer vision**. I have strong hands-on experience with data visualization tools such as Excel and Power BI, and I have led several academic projects, demonstrating effective leadership, collaboration, and problem-solving skills. I am passionate about extracting insights from data and applying intelligent, data-driven solutions to real-world challenges. I am now eager to contribute to innovative teams where I can continue learning and growing professionally.

EDUCATION AND TRAINING

22 Dec 2021 – CURRENT Gujranwala, Pakistan
BACHELOR Of Data Science (BSDS) GIFT University

Website www.gift.edu.pk | **Level in EQF** EQF level 5

PROJECTS

21 NOV 2024 – 30 AUG 2025
Skin Lesion Segmentation

Research Project – Enhancing MambaU-Lite for Skin Lesion Segmentation (In Progress)

Reproducing and analyzing the **MambaU-Lite** model for efficient skin lesion segmentation using the **ISIC2018** and **PH2** dataset. Benchmarking baseline performance and exploring improvements through modules such as **the P-Mamba block, Vision Selective Scan (VSS) block**, and **multi-scale feature fusion**. Investigating optimization techniques including model pruning, quantization, and knowledge distillation, with plans to generalize across datasets like **HAM10000**. Also integrating **Grad-CAM** for model explainability and using experiment tracking tools.

Goal: Enhance accuracy and deployability for future publications.

21 april 2024 – 30 aug 2044
COVID-19 CT Scan Classification

Research Project – Fuzzy Ensemble Model for COVID-19 Detection (In Progress)
Implementing a fuzzy rank-based fusion model using the Gompertz function to classify COVID-19 from CT-scan images. Combining predictions from VGG-11, Wide ResNet-50-2, and Inception v3 using adaptive ensemble learning. Evaluated on SARS-COV-2 and Harvard Dataverse datasets, achieving over 98% accuracy and sensitivity. Comparing results with traditional ensemble and standalone CNN models for validation.

Goal: Improve diagnostic accuracy using interpretable and robust AI for medical imaging.

DIGITAL SKILLS

Machine Learning | Deep Learning | Artificial Intelligence | Computer Vision | Researcher |Data Visualization | Data Analysis | Data Engineer | Problem Solving |Communication | Decision Making

Programming Languages

Python | R | SQL | Java | PyTorch | NumPy | scikit-learn | TensorFlow | Streamlit

CREATIVE WORKS

21 OCT 2024 – 24 OCT 2024
Workshop –Pythonic Odyssey Bootcamp

Acquired practical experience in Python programming and effectively utilized **Git version control** to manage code versions and collaborate on software development projects.

ORGANISATIONAL SKILLS

Event Head – Young Computer Professionals Society (YCPS)

Served as Event Head in YCPS successfully leading the planning and execution of multiple student-led events and activities.

VOLUNTEERING

23 Sep 2024 – 20 NOV 2024 Gujranwala Punjab Pakistan
Group Leader – Social Integration Program (SIP)
Fatima Jinnah Professional Forum

- Led a team of participants in the Social Integration Program focused on community awareness and personal development.
- Actively participated in sessions on first aid training, gym and physical wellness, breast cancer awareness, and women empowerment.
- Collaborated with organizers to ensure active engagement and smooth coordination of group activities.
- Developed leadership, communication, and organizational skills through hands-on experience in a socially impactful initiative.