

# Muhammad Moeed Asif

## Computer Science

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[Github](#)

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## PROFILE

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I am a computer scientist with a strong focus on computer vision and a background in developing and deploying advanced models. I have expertise in deep learning frameworks such as TensorFlow and PyTorch, with experience in image classification, object detection, semantic segmentation, and large language models. My work includes implementing neural network architectures like CNNs, RNNs, GANs, YOLO, Vision Transformers (ViT), and encoder-decoder models, as well as fine-tuning techniques to optimize performance. I am committed to staying updated with advancements in AI, machine learning, computer vision, and natural language processing.

## EXPERIENCE

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### PROJECTS:

- Engineered an innovative ConvLSTM model for predicting future video frames, achieving accurate forecasts on over 5,000 test videos using the UCF101 action recognition dataset to enhance real-time video analytics capabilities.
- Designed a state-of-the-art traffic sign recognition model utilizing YOLOv8 alongside Faster R-CNN algorithms; enhanced accuracy to identify real-time road signs in varied environmental conditions with precision across diverse datasets.
- Constructed an advanced pollution prediction system using time series analysis and integrated it with Prometheus and Grafana, enabling real-time monitoring and insights that reduced data retrieval time by 40%.
- Designed intricate data pipelines that processed over 10,000 retinal images, optimizing a CNN-based system for accurate glaucoma classification; strengthened predictive capabilities within ophthalmic research by refining existing methodologies.

## SKILLS

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- Python, OpenCV
- Mlflow
- Data Version Control (DVC)
- Docker and Kuberbates
- Git and Github version control
- TensorFlow, Keras
- Pytorch, Scikit learn
- Flask
- AWS Cloud Computing
- Jenkins

## ACHIEVEMENTS

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- [Lab Demonstrator of Data Structures and Algorithms](#)
- [Certified AWS Academy cloud foundations](#)
- [Usher of Job Fair 2024](#)

## SELF-LEARNING

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- Trained a custom CNN for traffic signs.
- Trained a GAN for synthetic image augmentation.
- Developed a timetable scheduling app using Genetic Algorithm.
- Developed a clothing store application in java.

## EDUCATION

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<b>FAST NUCES Islamabad</b>	<b>2021 -- 2025</b>
BS Computer Science	Islamabad, Pakistan
<b>Qurtuba College D.I.Khan</b>	<b>2018 -- 2020</b>
HSSC Part-1 and Part2	D.I.khan, Pakistan

## SOFT SKILLS

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- Can-do attitude
- Learning aptitude
- Adaptability
- Time management
- Critical thinking
- Communication skills
- Responsibility owning mindset