Maryam Amjad

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EDUCATION

Artificial Intelligence (BS) — FAST NUCES, Islamabad
Computer Vision, Generative AI, Deep Learning, Natural Language Processing — July 2021 - June 2025

SKILLS

Programming Languages: Python, C, C++, SQL
Frameworks: Numpy, Pandas, Scikit-Learn, NLTK, Matplotlib, SpaCy, TensorFlow, PyTorch, Cv2, Keras, Flask, Selenium, Hugging Face, Transformers, Tesseract
Data Engineering Tools: Docker, Apache Airflow, Kubernetes, MySQL
DevOps Engineering Tools: Git, Docker, Jenkins, CI/CD pipelines, Jupyter Notebook
Soft Skills: Leadership, Event management, Time management, Teamwork, Communication, Problem Solving

EXPERIENCE

Artificial Intelligence Intern — AIM Lab Islamabad
Jun 2023 - Aug 2023

– : Developed a website that generates slides from a prompt, creating the specified number of slides with relevant images, headings, and subheadings.

Lab Demonstrator for Object Oriented Programming — FAST NUCES Islamabad
Jun 2023 - Aug 2023; Sep 2023 - Dec 2023

– : Guided students with core concepts like inheritance, debugging, and hands-on coding.

Lab Demonstrator for Machine Learning — FAST NUCES Islamabad
Sep 2024 - Dec 2024

– : Assisted in feature engineering, model optimization, hyper-parameter tuning and live demos.

PROJECTS

TherapEase – Autism Therapy Assistant:
Developed a 3D digital twin-based system with real-time emotion detection, automated diagnostic support, and therapist dashboard for personalized autism therapy.
Technologies Used: React, Three.js, OpenCV, MediaPipe, Flask, TensorFlow, DeepFace

Image Classification with CNN:
Developed a Convolutional Neural Network (CNN) achieving 90% accuracy on CIFAR-10 dataset.
Technologies Used: TensorFlow, Keras, Python, NumPy, Matplotlib

Meme Classification:
Developed a sentiment classification system using six sklearn classifiers (three for images and three for text) and deployed as a Flask web application for real-time meme sentiment analysis.
Technologies Used: Scikit-learn, Flask, Python, TensorFlow, OpenCV, NLTK, Pandas

Image Super-Resolution with GANs:
Enhanced low-resolution images using ESRGAN (Enhanced Super Resolution Generative Adversarial Network), optimizing perceptual and adversarial loss for realistic textures and high PSNR/SSIM scores.
Technologies Used: PyTorch, ESRGAN, Python, NumPy, OpenCV

MLOps Pipeline for Weather Prediction:
Developed an MLOps pipeline with MLFlow for model versioning, AirFlow for automation, and Kubernetes for deployment. Built a full-stack weather prediction app with CI/CD integration.
Technologies Used: MLFlow, AirFlow, Kubernetes, Docker, Flask, Python, AWS, Git, Jenkins, DVC

CERTIFICATIONS

Convolutional Neural Networks: DeepLearning.AI

Generative AI with Large Language Models: DeepLearning.AI

Fundamentals of AI Agents Using RAG and LangChain: IBM

AWS Cloud Technical Essentials: AWS

Fundamentals of Reinforcement Learning: University of Alberta