DAWOOD SARFRAZ

Lahore, Pakistan

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EDUCATION

FAST National University of Computer and Emerging Sciences, Islamabad

Bachelor's in Computer Science   *Sep 2020 - Sep 2024*

LANGUAGES AND TECHNOLOGIES

Languages: Python, C++
Cloud & DevOps: Docker, Kubernetes, Jenkins
Tools: Git, Google Colab, Jupyter Notebook,Visual Studio
Web Frameworks: Django, Flask, FastAPI, Gradio, Streamlit
Libraries: PyTorch, scikit-learn, TensorFlow, Keras, NumPy, Matplotlib, SciPy, Pandas, Seaborn, NLTK, spaCy, OpenCV

EXPERIENCE

Research Assistant   **Sep 2023 – Sep 2024**

Machine Learning Engineer   *Remote, Pakistan*

- Worked on a research project focused on classifying skin cancer using CNN, ShuffleNet, and NasNet models, gaining experience in medical data processing and deep learning architectures.

Anonymous Tree   **July 2023 – Aug 2023**

Machine Learning Engineer   *Remote, Pakistan*

- Worked as a Machine Learning Engineer, assisting beginners in learning core concepts of Machine Learning.

PROJECTS

Multi-Class Cancer Classification   **June 2024 – Sep 2024**

- Developed a multi-class classification model using a dataset of 10,000+ dermoscopic images to identify different skin cancer types.
- Addressed class imbalance by implementing the RandomOverSampler technique to improve model performance.
- Trained three CNN architectures: **Custom CNN** , **NasNet** and **ShuffleNet**.

Enhancing Medical Education through Immersive Virtual Reality   **Sep 2023 - May 2024**

- Developing a **VR-based Medical Training System**.
- Created **VR medical simulations** with haptic feedback for realistic training of medical students.
- The goal of the project is to reduce costs and ethical concerns associated with traditional surgical training methods.
- [Project Link](#)

Duplicate Questions Pair   **June 2023 - July 2023**

- Build a model that can **Identify and Detect Duplicate** question pairs
- Applied different algorithms like **Random Forest Classifier, XB Classifier, Decision Tree Classifier**
- XGB Classifier performed very well and **achived 80% Accuracy**
- [Project Link](#)

Next Word Prediction   **Oct 2024 – Oct 2024**

- Worked with an unlabeled dataset consisting of approximately **2650** unique words and **800** lines.
- Applied preprocessing techniques and used **LSTM** with **Adam** as the optimizer.
- Achieved an accuracy of approximately **93%**.
- [Project Link](#)

Cyber Attacks Classification using Machine Learning   **Mar 2023 – April 2023**

- Project focuses on utilizing Machine Learing to **classify and identify different types of cyber attacks**
- Cleaning, normalizing, and transforming the collected data into a suitable formate
- Applied various algorithms **MLP** performed well with **93% accuracy**
- [Project Link](#)