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 VR Project Link **Sep 2023 - May 2024**
- Developing a VR-based Medical Training System.
- Created VR medical simulations with hapticATS by Ehmad Zubair 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.

Duplicate Questions Pair Project Link **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

Text Generation Project Link **Sep 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%.

Cyber Attacks Classification using Machine Learning Project Link **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