

# DAWOOD SARFRAZ

Lahore, Pakistan

 +923061757838  dawoodsarfraz.cs@gmail.com  Dawood Sarfraz  Daudsarfraz  DawoodSarfraz

## EDUCATION

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### FAST National University of Computer and Emerging Sciences

Bachelor's in Computer Science

Sep 2020 - Sep 2024

## SKILLS

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**Languages:** Python, C++, SQL, MATLAB

**Tools:** Git, Postman, Docker, Kubernetes, Jenkins

**Libraries:** FastAPI, Flask, Streamlit

**ML Libraries and Frameworks:** PyTorch, scikit-learn, TensorFlow, Keras, NumPy, Matplotlib, SciPy, Pandas, Seaborn, NLTK, spaCy, OpenCV, Langchain

## EXPERIENCE

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### Research Assistant

Sep 2023 – Sep 2024

Machine Learning Engineer

Remote

- 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 Intern

Remote

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

## PROJECTS

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### Multi-Class Cancer Classification

- Built a multi-class model with 10,000+ dermoscopic images to classify skin cancer types. Trained Custom CNN, NasNet, and ShuffleNet models.

### PaperScope [Project Link](#)

- PaperScope is an AI chatbot utilizing RAG, Mistral 7B, and Langchain to analyze and summarize academic papers. It leverages WeaviateDB for efficient document retrieval and context-aware responses.

### RoboText Classifier [Project Link](#)

- Developed a VR-based medical training system with haptic feedback for realistic simulations, enhancing surgical training for medical students. Aimed to reduce costs and ethical concerns associated with traditional methods.

### Enhancing Medical Education through Immersive VR [Project Link](#)

- Developed a VR-based medical training system with haptic feedback for realistic simulations, enhancing surgical training for medical students. Aimed to reduce costs and ethical concerns associated with traditional methods.

### Duplicate Questions Pair [Project Link](#)

- Built a model to identify and detect duplicate question pairs using Random Forest, XGBoost, and Decision Tree classifiers. Achieved 80% accuracy with XGBoost classifier.

### Text Generation [Project Link](#)

- Processed a 500MB unlabeled dataset with 2650 unique words and 800 data entries. Applied data preprocessing techniques and used LSTM with Adam optimizer, achieving 93% accuracy.

### Cyber Attacks Classification using Machine Learning [Project Link](#)

- Developed a machine learning model to classify and identify different types of cyberattacks. Preprocessed and transformed data for model use. Achieved 93% accuracy using MLP.