Haider Imran

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SUMMARY

I am a passionate problem solver with a strong focus on software development and algorithms. Proficient in Python, I have a deep interest in Machine Learning (ML) and Artificial Intelligence (AI). I excel at working independently and collaboratively, leveraging strong communication and interpersonal skills to drive results

EDUCATION

FCCU **Lahore, Pakistan**

B.S. Computer Science *2022-Present*

- **Concentrations:** Artificial Intelligence / Machine Learning
- **Related Coursework:** Data Structures & Algorithms, Computer Organization & Assembly language, Operating Systems, Database Management Systems, Machine learning

Coursera **2024**

Machine learning specialization

Punjab Group of Colleges **Lahore, Pakistan**

Pre-Medicine

PROJECTS

Space shooter Game

- Created a terminal based space shooter game using pygame.
- Implemented the different concepts of OOP and learned the use of inheritance, composition, etc.
- Included proper documentation of the project along with the code.

Skin Cancer Classification

- Built a binary classification model in TensorFlow to classify Benign or Malignant skin tumors.
- Used a CNN model to implement the project.
- Used different data augmentation techniques to expand the dataset.
- Achieved a high accuracy of 98%.

Mango Plants Disease Classification

- Obtained a dataset of 8 classes; 7 classes were of different common diseases that attack mango plants and 1 class of healthy mango plants.
- The dataset was balanced with each class containing 500 images.
- The initial approach was to use a simple neural network architecture. Later on, switched to CNNs. Also implemented a knn model for this project
- The CNN model performed the best with a high testing accuracy of 92%, with training and validation accuracy following closely. The simple NN had a poor performance of merely 55%. The Knn model was slightly better with a 75% accuracy.
- After implementing the model, Flask (a Python module) was used to create a frontend of the project to showcase the results.

ACTIVITIES AND LEADERSHIP

Hackathon, FCCU

Volunteer **Lahore, Pakistan**

- Worked with the management team to organize The Hackathon event at FCCU.

SKILLS

Programming: HTML/CSS, Python, MIPS assembly, TensorFlow, Flask
Tools: VS Code, IDLE
Video editing: Capcut