A K Abdul Rahman

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Summary

Aspiring Machine Learning Engineer with a strong foundation in machine learning algorithms, Python, and frameworks like TensorFlow and PyTorch. Skilled in data preprocessing, feature engineering, and building predictive models. Passionate about applying AI to solve real-world challenges and continuously learning cutting-edge technologies.

Education

Sri Chaitanya School   **HSC: 90%**
Poonamallee, Chennai

Sri Chaitanya   **SSLC: 80%**
Poonamallee, Chennai

Skills

Programming Languages: C, Python, Java

Databases: DBMS

Tools: Excel, Git, ChatGPT

Soft Skills: Multitasking, Team Management, Leadership

Projects

FRUIT-CLASSIFIER

- Developed a fruit classification model leveraging Convolutional Neural Networks (CNNs) to categorize images into respective fruit classes. Utilized the Fruits 360 dataset, comprising a variety of fruit images organized into labeled categories.
- Preprocessed the dataset by resizing images to 100x100 pixels and normalizing pixel values to [0, 1] for enhanced model learning.
- Designed a robust CNN architecture featuring multiple convolutional and pooling layers, followed by fully connected layers for accurate predictions.
- Implemented data augmentation techniques using Keras' ImageDataGenerator to improve the model's generalization capability.
- Trained the model on the augmented dataset and achieved high classification accuracy on the test set. Deployed the trained model in .keras format for real-time predictions.
- Built an interactive system to allow users to upload fruit images, view predictions, and receive visual feedback with the input image displayed alongside the classification result.
- Applications span agriculture, food quality assurance, and inventory management systems.

Activities

Participated in various NSS camps, engaging in impactful social work initiatives.

- Drafted reports and prepared event invites with the design team.
- Coordinated event planning and execution.

Certifications

Mastering Git by Infosys

Programming in Python Beginner by Infosys

Project on Git by Infosys

Python Clean Coding by Infosys

NPTEL Certification in Pattern Recognition and its Application