Tropical Fruit Identifier

Project Proposal

Advanced SoFTWare Solutions

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# Project Scope Statement

The primary objective of this project is to develop and optimize a machine learning model that can be used to recognize local fruits. The project’s stakeholders are us the research team. The project will be limited to only focusing on 4 fruits. There is a chance that we would have insufficient processing power ad memory resources to create a good model.

# Project Objectives

Select and appropriate machine learning tool.

Create a suitable dataset.

Find the minimum dataset required to get a 60% or above accuracy for the recognition of four tropical fruits with a machine learning model.

# Project Description

This project will involve creating a dataset of images of up to 4 local fruits and using machine learning tools to train a classifier to recognize the fruits. The next step would be to find out how much the dataset can be reduced to make the model most efficient.

# Project Benefits

Anybody who would like to use the model in the future or is interested in classifying local fruits.

# Project Deliverables

Research Paper with graphs and charts dem.

Tropical fruit recognition machine learning model

# Estimate Project Duration

Draft and Final Project Proposal

Prelim Research

Some form of literature review

Assessment of available image recognition tools

Collection and refinement of dataset (Most time consuming part)

Training the machine learning algorithm. (Second most time consuming part)

Test 1

Test 2

Test 3

Final write up and documentation