Model Development Phase Template

Date	2 July 2024
Team ID	**SWTID1720176710**
Project Title	Visual Diagnostics: Detecting Tomato Plant Diseases Through Leaf Image Analysis
Maximum Marks	5 Marks

Model Selection Report

In the model selection report for future deep learning and computer vision projects, various architectures, such as CNNs or RNNs, will be evaluated. Factors such as performance, complexity, and computational requirements will be considered to determine the most suitable model for the task at hand.

Model Selection Report:

Model	Description
ResNet152V2	We are developing a deep learning model to predict whether a tomato leaf is healthy or diseased. Using advanced techniques like Convolutional Neural Networks (CNN), TensorFlow, Keras, and ResNet 152V2, the model will analyze leaf images to accurately classify various diseases. Deployed via Flask, this project aims to enable early detection and targeted treatment, helping tomato farmers manage crops effectively and ensure healthier yields.