

Model Development Phase

Date	25 June 2025
Team ID	SWTID1750058607
Project Title	Early-Stage Disease Diagnosis System Using Human Nail Image
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
VGG16	VGG16 is a deep Convolutional Neural Network (CNN) architecture used for this project. It is selected for its simplicity and effectiveness as a feature extractor, particularly when utilized with transfer learning on specialized medical image datasets, which are typically not as large as general datasets like ImageNet. This model provides a robust starting point for classifying complex visual patterns in human nail images for early disease diagnosis.