Model Development Phase Template

Date	20-06-2025
Team ID	SWDTID1749906902
Project Title	Early Stage Disease Diagnosis System Using Human Nail Image Processing
Maximum Marks	6 Marks

Model Selection Report

In the forthcoming Model Selection Report, various models will be outlined, detailing their descriptions, hyperparameters, and performance metrics, including Accuracy or F1 Score. This comprehensive report will provide insights into the chosen models and their effectiveness.

Model	Description	Hyperparameters	Performance Metric (e.g., Accuracy, F1 Score)
TensorFlow / Keras	**TensorFlow** is an open-source machine learning framework developed by Google. It is widely used for building, training, and deploying machine learning and deep learning models. **Keras** is a high-level API built on top of TensorFlow that simplifies the creation of deep learning models. It provides a user-friendly interface for building neural networks with minimal code.	-	Accuracy score = 98%

VGG16 Model	**VGG16** is a deep convolutional neural network (CNN) developed by the Visual Geometry Group at the University of Oxford. It is known for its **simple and uniform architecture**, using 16 layers (13 convolutional + 3 fully connected).	-	Accuracy score = 95%
Flask	**Flask** is a lightweight, open-source web framework written in Python. It is designed to help developers build web applications and APIs quickly and easily.	-	Accuracy score = 95%
flask_cors.CORS	**flask_cors.CORS** is a Flask extension that enables **Cross-Origin Resource Sharing (CORS)** for your web application.	-	Accuracy score = 96%