Model Development Phase Template

Date	15 August 2024
Team ID	LTVIP2024TMID24772
Project Title	Implementation of Deep Learning Techniques to Detect Malaria
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
CNN	The Convolutional Neural Network (CNN) is designed to classify blood smear images as either **parasitized** or **uninfected**. The model consists of multiple convolutional layers, followed by pooling layers, dropout layers, and dense layers, which extract features from the images and perform classification. It utilizes techniques such as **data augmentation** and **one-hot encoding** to improve generalization and effectively handle the binary classification task. The architecture aims to achieve high accuracy in detecting malaria-infected cells from microscopic images.