Model Development Phase Template

Date	1 December 2024
Team ID	739846
Project Title	Garbage Classification Using Deep Learning
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 model (VGG16)	VGG16 is a deep learning model in the Convolutional Neural Network (CNN) family, which was developed by the Visual Geometry Group (VGG) at the University of Oxford for image classification. The model is well-known for its simple yet effective architecture. VGG16 consists of 16 weight layers (13 convolutional layers and 3 fully connected layers).
Fine Tuning	Fine-tuning is a technique used in transfer learning, where a model pre-trained on one task (usually on a large dataset like ImageNet) is retrained (fine-tuned) on a new task or dataset, typically with a smaller dataset.