Model Development Phase Template

Date	18 July 2024
Team ID	SWTID1720012105
Project Title	WarLens: Transfer Learning for Event Classification in Conflict Zones
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
Resnet50	It is a deep convolutional neural network designed to address the vanishing gradient problem in training deep networks. It achieves this by introducing residual connections, allowing gradients to flow directly through layers, bypassing intermediate layers. ResNet50 is widely used for image classification tasks due to its ability to learn deep representations and its robust performance across various datasets.
MobileNetV2	MobileNetV2 is a convolutional neural network architecture optimized for mobile and embedded vision applications. It uses depthwise separable convolutions to significantly reduce the number of parameters and computational complexity. MobileNetV2 also introduces inverted residuals

| | and linear bottlenecks, enhancing the network's efficiency and accuracy. This model is particularly suited for resource-constrained environments while maintaining high performance in image classification tasks. |