Model Development Phase Template

Date	15 March 2024
Team ID	SWTlD1720439521
Project Title	Covidvision: Advanced Covid-19 Detection From Lung X-Rays With 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
Model 1	**Convolutional Neural Network (CNN)**: Convolutional layers are used by convolutional neural networks, or CNNs, to automatically and adaptively learn the spatial hierarchies of features. CNNs are specifically made for picture data. For tasks involving segmentation, object detection, and picture classification, they are very successful. **Accuracy: 85%**
Model 2	**Artificial Neural Networks (ANNs):** ANNs are made up of several layers of connected neurons, each of which has a weight assigned to it. They are adaptable and suitable for many applications, including as regression and

	classification. For jobs involving images, they could not be as effective as specialist designs like CNNs**.** **Accuracy: 90%**

Evaluation Standards:
Performance: Recall, accuracy, and precision.
Complexity: The quantity of parameters and network depth.
Computational requirements: Memory utilization, inference time, and training time are all considered computational requirements.