

Model Development Phase Template

Date	01 May 2025
Team ID	739942
Project Title	CovidVision: Advanced COVID-19 Detection From Lung X-Rays With Deep Learning Using IBM Cloud
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 (vgg16) Transfer Learning	<p>Description: VGG16 is a deep learning model in the (CNN). Pre-trained on ImageNet for image classification; fine-tuned for detecting COVID-19 from chest X-ray classification by freezing layers and training the final dense layer.</p> <p>Performance: High accuracy with reduced false positives/negatives.</p> <p>Complexity: Moderate to high (138 million parameters).</p> <p>Computational Requirements: High (requires significant GPU resources).</p>

