Model Development Phase Template

Date	19 March 2024
Team ID	SWTID1720240510
Project Title	Covid vision: 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.

We choose xception model because it gives the most accturate and good accuracy.

Model Selection Report:

Model	Description
Model 1- xception model	Xception stands for "Extreme Inception" and is inspired by the Inception architecture. It replaces the standard Inception modules with depth wise separable convolutions, which are more computationally efficient. Xception aims to capture more complex patterns while maintaining efficiency, reducing the number of parameters and computations compared to previous architectures like Inception V3. Images are resized to a standard size suitable for the model input. For Xception, common input sizes are 299x299 pixels. Techniques like random rotation, flipping, and cropping are applied to increase the diversity of training samples, improving the model's generalization ability.