



Model Development Phase Template

Date	11 July 2024
Team ID	SWTID1720011518
Project Title	WCE curated Colon Disease 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
VGG16	By using feature extraction, we have used the VGG16 pre-trained model. One Dense and one Flatten layer is used. The loss function is categorical_crossentropy, optimizer is "adam" and metrics for evaluation is accuracy.
	For 5 epochs:
	The Training Loss is: 0.0272
	The Training Accuracy is: 0.9909
	The Validation Loss is: 0.0190
	The Validation Accuracy is: 0.9907





Resnet50	By using feature extraction, we have used the Resnet50 pre-trained model. One Dense and one Flatten layer is used. The loss function is categorical_crossentropy, optimizer is "adam" and metrics for evaluation is accuracy. For 5 epochs: The Training Loss is: 0.3833 The Training Accuracy is: 0.8625 The Validation Loss is: 0.2326 The Validation Accuracy is: 0.9047
	By using feature extraction, we have used the InceptionV3 pre-trained model. One Dense and one Flatten layer is used. The loss function is categorical_crossentropy, optimizer is "adam" and metrics for evaluation is accuracy. For 5 epochs:
InceptionV3	The Training Loss is: 0.2585
	The Training Accuracy is: 0.9850
	The Validation Loss is: 4.9814
	The Validation Accuracy is: 0.8537