



Model Development Phase Template

Date	11 July 2024
Team ID	SWTID1720011518
Project Title	WCE curated Colon Disease Classification using Deep Learning
Maximum Marks	10 Marks

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include a summary and training and validation performance metrics for multiple models, presented through respective screenshots.

Initial Model Training Code (5 marks):

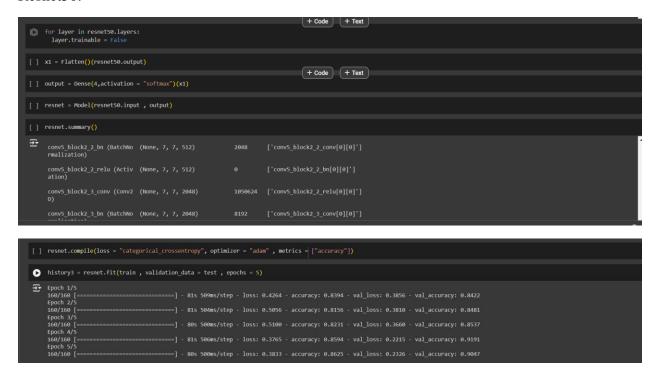
VGG16:







Resnet50:



InceptionV3:







${\bf Model\ Validation\ and\ Evaluation\ Report\ (5\ marks):}$

Model	Summary	Training and Validation Performance Metrics
VGG16	Nodel: "vgg16" Nodel: "vgg16" Param # Layer (type) Output shape Param # input_1 (InputLayer) [(None, 224, 224, 3)] 0 block1_conv1 (Conv2D) (None, 224, 224, 64) 1792 block1_conv2 (Conv2D) (None, 112, 112, 128) 36928 block2_conv1 (Conv2D) (None, 112, 112, 128) 73856 block2_conv2 (Conv2D) (None, 112, 112, 128) 147584 block2_conv2 (Conv2D) (None, 56, 56, 128) 0 block3_conv1 (Conv2D) (None, 56, 56, 256) 295168 block3_conv2 (Conv2D) (None, 56, 56, 256) 590680 block3_conv3 (Conv2D) (None, 14, 14, 512) 0 block4_pool (MaxPooling2D) (None, 14, 14, 512) 2359808 block5_conv1 (Conv2D) (None, 14, 14, 512) 2359808 block5_conv3 (Conv2D) (None, 14, 14, 512) 2359808 block5_pool (MaxPooling2D) (None, 7, 7, 512) 0 flatten (Flatten) (None, 25088) 0 dense (Dense) (None, 4) 100356 1001 14714688 (56.13 MB)	
Resnet50	[] resnet.samary() comes_block2_z_bm (BatchNo (Nome, 7, 7, 512)	□ history) = resect.fit(train , validation_data = test , epochs = 5) □ (poch 1/5





