## Project Development Phase Model Performance Test

Date	9 November 2023
Team ID	Team-591950
Project Name	Project - Image Caption Generation
Maximum Marks	10 Marks

## **Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot	
1.	Model Summary	Total params: 134260544 Trainable params: 134260544	8 print(model.summary())  Downloading data from https://storage.googleagis.com/tensorflos53467096/553467096 [====================================	
		Trainable params: 134260544 Non-trainable params: 0	Nodel: "model:	
2.	Accuracy	Training Accuracy - 97.81%  Validation Accuracy - 98.17%	Trainable params: 134269544 (512.16 PB)	
3.	Confidence Score (Only Yolo Projects)	Class Detected - NA  Confidence Score - NA	NOT APPLICABLE	

## **Model Summary:-**



8 print(model.summary())

Downloading data from <a href="https://storage.googleapis.com/tensorflow/keras-applicat">https://storage.googleapis.com/tensorflow/keras-applicat</a> 553467096/553467096 [===========] - 14s Ous/step Model: "model"

Layer (type)	Output Shape	Param #
<pre>input_1 (InputLayer)</pre>		0
block1_conv1 (Conv2D)	(None, 224, 224, 64)	1792
block1_conv2 (Conv2D)	(None, 224, 224, 64)	36928
block1_pool (MaxPooling2D)	(None, 112, 112, 64)	0
block2_conv1 (Conv2D)	(None, 112, 112, 128)	73856
block2_conv2 (Conv2D)	(None, 112, 112, 128)	147584
block2_pool (MaxPooling2D)	(None, 56, 56, 128)	0
block3_conv1 (Conv2D)	(None, 56, 56, 256)	295168
block3_conv2 (Conv2D)	(None, 56, 56, 256)	590080
block3_conv3 (Conv2D)	(None, 56, 56, 256)	590080
block3_pool (MaxPooling2D)	(None, 28, 28, 256)	0
block4_conv1 (Conv2D)	(None, 28, 28, 512)	1180160
block4_conv2 (Conv2D)	(None, 28, 28, 512)	2359808
block4_conv3 (Conv2D)	(None, 28, 28, 512)	2359808
block4_pool (MaxPooling2D)	(None, 14, 14, 512)	0
block5_conv1 (Conv2D)	(None, 14, 14, 512)	2359808
block5_conv2 (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
fc1 (Dense)	(None, 4096)	102764544
fc2 (Dense)	(None, 4096)	16781312

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Total params: 134260544 (512.16 MB) Trainable params: 134260544 (512.16 MB) Non-trainable params: 0 (0.00 Byte)

## Accuracy:-

[20] 1 history = model.fit(x\_train, y\_train, batch\_size=batch, epochs=epochs, validation\_split=0.2, shuffle = True, verbose=1)

```
Epoch 1/10
Epoch 2/10
Epoch 3/10
Epoch 4/10
    490/490 [===
Epoch 5/10
490/490 [===
     Epoch 6/10
490/490 [===
     :==========] - 33s 67ms/step - loss: 0.0430 - accuracy: 0.9885 - val_loss: 0.0244 - val_accuracy: 0.9933
Epoch 7/10
490/490 [=====
    ============] - 32s 65ms/step - loss: 0.1247 - accuracy: 0.9687 - val_loss: 9.7525 - val_accuracy: 0.2630
Epoch 8/10
Epoch 9/10
Fpoch 10/10
```