Project Development Phase Model Performance Test

Date	15 November 2023	
Team ID	Team-591950	
Project Name	Project - Image Caption Generation	
eximum 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	<pre>8 print(model.summary())</pre>	
	Wieder Summary	Trainable params: 134260544	Downloading data from https://storage.googleagis.com/tensorflow/xe 553467096/553467096 [======] - 14s @us/ste Modi: "model"	
		Non-trainable params: 0	Layer (type) Output Shape Param #	
		Non tramable params.	input_1 (InputLayer) [(None, 224, 224, 3)] 0	
			block1_conv1 (Conv2D) (None, 224, 224, 64) 1792	
			block1_conv2 (Conv2D) (None, 224, 224, 64) 36928	
			block1_pool (MaxPooling2D) (None, 112, 112, 64) 8	
			block2_conv1 (Conv2D) (None, 112, 112, 128) 73856	
			block2_conv2 (Conv2D) (None, 112, 112, 128) 147584	
			block2_pool (MaxPooling20) (None, 56, 56, 128) 0	
		block3_conv1 (Conv2D) (None, 56, 56, 256) 295168		
		block3_conv2 (Conv2D) (None, 56, 56, 256) 598880		
			block3_conv3 (Conv2D) (None, 56, 56, 256) 590000	
			block3_pool (HaxPooling2D) (None, 28, 28, 256) 8	
			block4_conv1 (Conv2D) (None, 28, 28, 512) 1180160	
			block4_conv2 (Conv2D) (None, 28, 28, 512) 2359808	
			block4_canv3 (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	
			Total params: 134266544 (512.16 MB) Trainable params: 134266544 (512.16 MB) Non-trainable params: 0 (0.08 Byte)	
2.	Accuracy Training Accuracy - 97.81%		[38] I biztry - model.fit(_trainy_trainbattd_time-batch_opoche-poche_validation_splice_3shaffs = Too_varbose_1]	
	_		Speck 1/38 48(49) [
			Epoch 2700 Epoch	
		Validation Accuracy – 98.17%	49(49) [
		'	\$40(49) [
			[poch 6/39 406/405 [
			186 187	
			Epoch 9/30 406/400 [
			\$poch 10/10 496/490 [

3.	Confidence Score (Only Yolo Projects)	Class Detected - NA	NOT APPLICABLE
	, ,	Confidence Score - NA	

Model Summary:-

8 print(model.summary())

Downloading data from https://storage.googleapis.com/tensorflow/keras-applicat Model: "model"

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, 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

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

Accuracy:-

```
Epoch 1/10
490/490 [==
    Epoch 2/10
Epoch 3/10
Epoch 4/10
490/490 [===
     Epoch 5/10
490/490 [===
      ==========] - 32s 66ms/step - loss: 0.0642 - accuracy: 0.9828 - val_loss: 0.3871 - val_accuracy: 0.9095
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 [====
Fnoch 8/10
Epoch 9/10
Epoch 10/10
```