Project Development Phase
Model Performance Test

Date	21 November 2023
Team ID	Team - 592198
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	-	Provided below
2.	Accuracy	Training Accuracy - Validation Accuracy -	Provided below calculated using BLEU
3.	Confidence Score (Only Yolo Projects)	Class Detected - Confidence Score -	-

```
Model: "model_1"
_____
 Layer (type)              Output Shape          Param #    Connected to
===============================================================================
 input_3 (InputLayer)      [(None, 31)]          0          []

 input_2 (InputLayer)      [(None, 2048)]        0          []

 embedding (Embedding)     (None, 31, 50)        90150      ['input_3[0][0]']

 dropout (Dropout)         (None, 2048)          0          ['input_2[0][0]']

 dropout_1 (Dropout)       (None, 31, 50)        0          ['embedding[0][0]']

 dense (Dense)             (None, 256)           524544     ['dropout[0][0]']

 lstm (LSTM)               (None, 256)           314368     ['dropout_1[0][0]']

 add (Add)                 (None, 256)           0          ['dense[0][0]',
                                                             'lstm[0][0]']

 dense_1 (Dense)           (None, 256)           65792      ['add[0][0]']

 dense_2 (Dense)           (None, 1803)          463371     ['dense_1[0][0]']

===============================================================================
Total params: 1458225 (5.56 MB)
Trainable params: 1368075 (5.22 MB)
```

```
# calcuate BLEU score
print("BLEU-1: %f" % corpus_bleu(actual, predicted, weights=(1.0, 0, 0, 0)))
print("BLEU-2: %f" % corpus_bleu(actual, predicted, weights=(0.5, 0.5, 0, 0)))
```

```
  0%|            | 0/810 [00:00<?, ?it/s]
BLEU-1: 0.516880
BLEU-2: 0.293009
```