Project Development Phase
Model Performance Test

Date	21 November 2023
Team ID	Team – 591920
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
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)
```

```
Train on 47863 samples, validate on 15795 samples
Epoch 1/6
 - 3030s - loss: 5.3234 - accuracy: 0.1629 - val_loss: 4.8213 - val_accuracy: 0.2102
Epoch 2/6
 - 4994s - loss: 4.4604 - accuracy: 0.2271 - val_loss: 4.5491 - val_accuracy: 0.2487
Epoch 3/6
 - 4277s - loss: 4.0617 - accuracy: 0.2584 - val_loss: 4.4929 - val_accuracy: 0.2638
Epoch 4/6

 - 3356s - loss: 3.7913 - accuracy: 0.2750 - val_loss: 4.5489 - val_accuracy: 0.2697
Epoch 5/6
 - 3909s - loss: 3.5843 - accuracy: 0.2896 - val_loss: 4.5545 - val_accuracy: 0.2825
Epoch 6/6
 - 3795s - loss: 3.4047 - accuracy: 0.3018 - val_loss: 4.6456 - val_accuracy: 0.2832
```

```python
for label in ["loss","val_loss"]:
    plt.plot(hist.history[label],label=label)
plt.legend()
plt.xlabel("epochs")
plt.ylabel("loss")
plt.show()
```