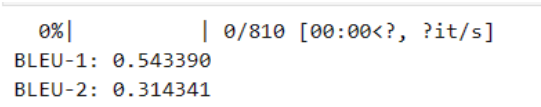


Project Development Phase Model Performance Test

Date	20 November 2022
Team ID	591955
Project Name	IMAGE CAPTION GENERATION
Maximum Marks	10 Marks

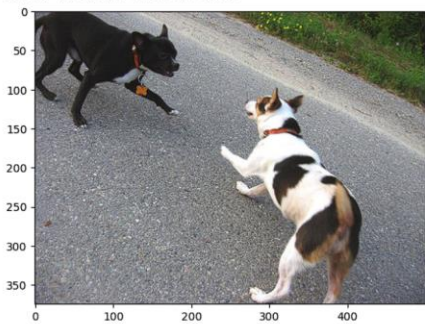
Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot
1.	Metrics	Sequence generation Model: BLEU Score 1 & 2 -	
2.	Tune the Model	Hyper parameter Tuning -	<p> <i>shape=(4096)</i> - output length of the features from the VGG model <i>Dense</i> - single dimension linear layer array <i>Dropout()</i> - used to add regularization to the data, avoiding over fitting & dropping out a fraction of the data from the layers <i>model.compile()</i> - compilation of the model <i>loss='sparse_categorical_crossentropy'</i> - loss function for category outputs <i>optimizer='adam'</i> - automatically adjust the learning rate for the model over the no. of epochs </p> <pre># train the model epochs = 20 batch_size = 32 steps = len(train) // batch_size</pre> <p>Now let us see the no. of images loaded</p> <pre>len(mapping)</pre> <p>8091</p>

Validation Method (Manual evaluation) -

-----Actual-----
startseq black dog and spotted dog are fighting endseq
startseq black dog and tri-colored dog playing with each other on the road endseq
startseq black dog and white dog with brown spots are staring at each other in the street endseq
startseq two dogs of different breeds looking at each other on the road endseq
startseq two dogs on pavement moving toward each other endseq
-----Predicted-----
startseq two dogs play in the sand endseq



-----Actual-----
startseq little girl covered in paint sits in front of painted rainbow with her hands in bowl endseq
startseq little girl is sitting in front of large painted rainbow endseq
startseq small girl in the grass plays with fingerpaints in front of white canvas with rainbow on it endseq
startseq there is girl with pigtails sitting in front of rainbow painting endseq
startseq young girl with pigtails painting outside in the grass endseq
-----Predicted-----
startseq child in blue dress is painting on painted sofa in the grass endseq

