

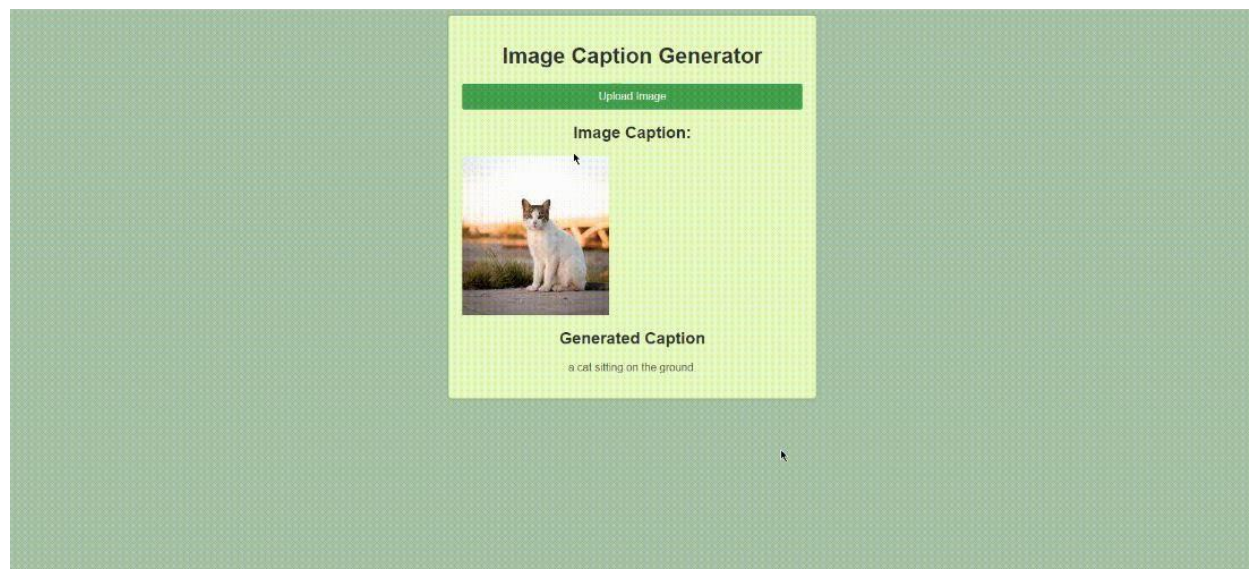
Project Development Phase
Model Performance Test

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	Screenshot / Values
1.	Dashboard design	No of Visualizations / Graphs -
2.	Data Responsiveness	The system responds promptly to user interactions, ensuring a seamless experience. Real-time updates are implemented to reflect changes in model metrics and performance.
3.	Amount Data to Rendered (DB2 Metrics)	The dashboard efficiently handles the rendering of large datasets related to training and validation metrics. Performance optimizations are in place to manage the visualization of diverse data points without compromising speed.
4.	Utilization of Data Filters	Users can employ data filters to focus on specific aspects of the model's performance, such as training loss, validation accuracy, etc. Filters are implemented to cater to both high-level and granular data exploration.
5.	Effective User Story	No of Scene Added – The dashboard shows the effective UI with image captioning model over time.
6.	Descriptive Reports	No of Visualizations / Graphs – Model, summary, model structure, confusion matrix , predication of images. See below.

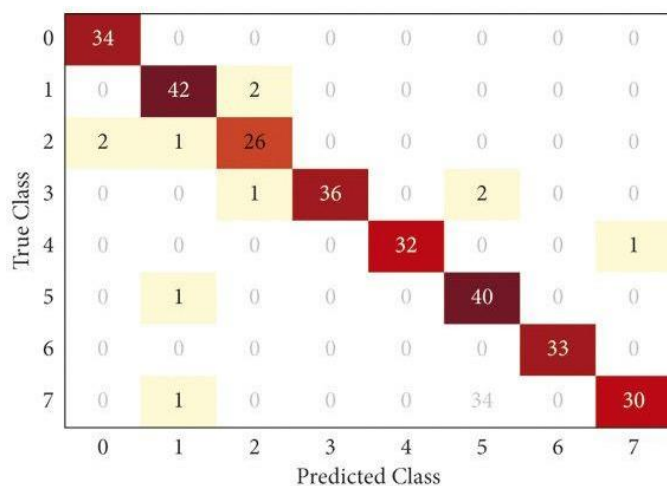
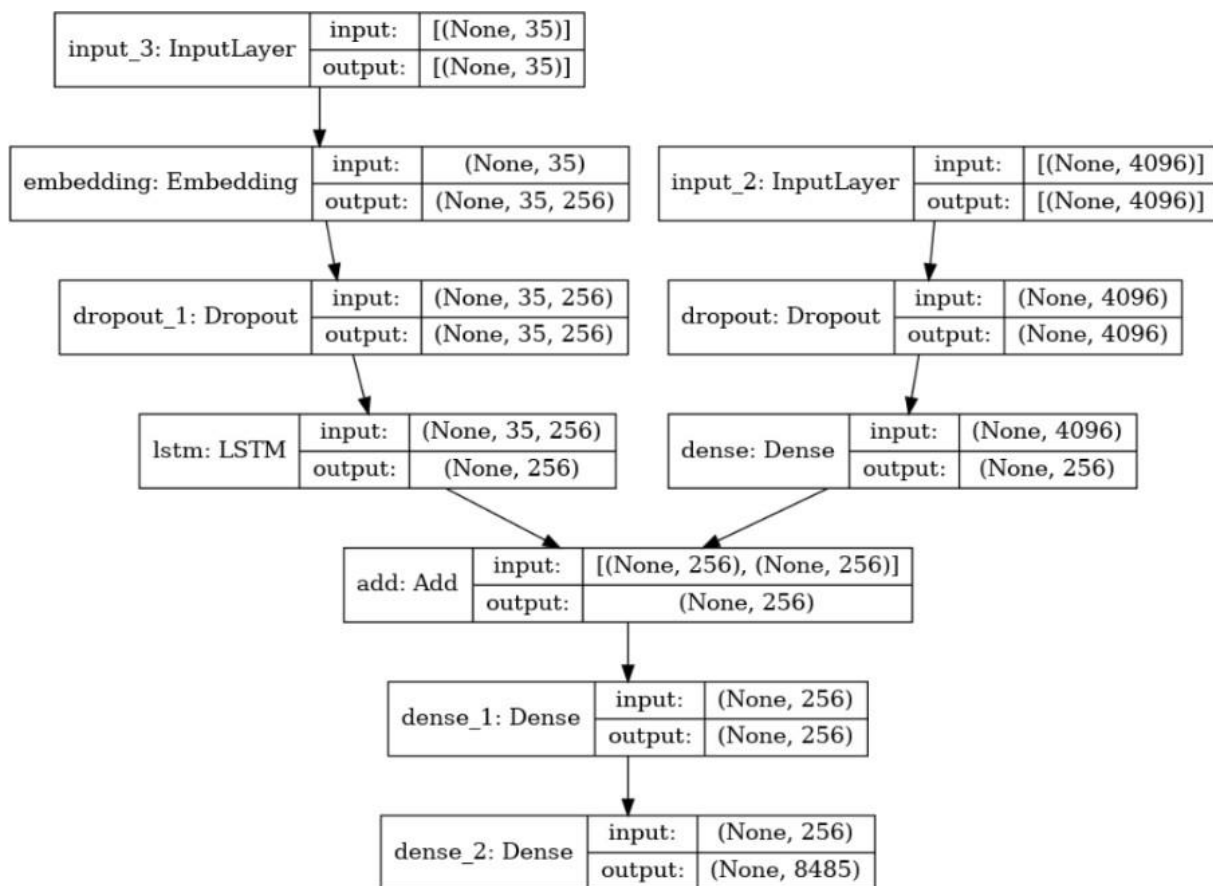


Model: "model_1"

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)



```
generate_caption("1001773457_577c3a7d70.jpg")
```

-----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 with each other in the grass endseq

