

Model Development Phase Template

Date	15 October 2024
Team ID	739823
Project Title	Spooky Author Identification Using Deep Learning
Maximum Marks	10 Marks

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include a summary and training and validation performance metrics for multiple models, presented through respective screenshots.

Initial Model Training Code (5 marks):

```
model.fit( x_train, y_train, validation_data=(X_val, y_val),epochs=10,batch_size=128)
```

Model	Summary	Training and Validation Performance Metrics
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Model Validation and Evaluation Report (5 marks):

Keras

Display the model's architecture
model.summary()

Model: "sequential"

Layer (type)	Output Shape	Param #
embedding (Embedding)	?	0 (unbuilt)
lstm (LSTM)	?	0 (unbuilt)
global_max_pooling1d (GlobalMaxPooling1D)	?	0 (unbuilt)
dense (Dense)	?	0 (unbuilt)
dropout (Dropout)	?	0 (unbuilt)
dense_1 (Dense)	?	0 (unbuilt)

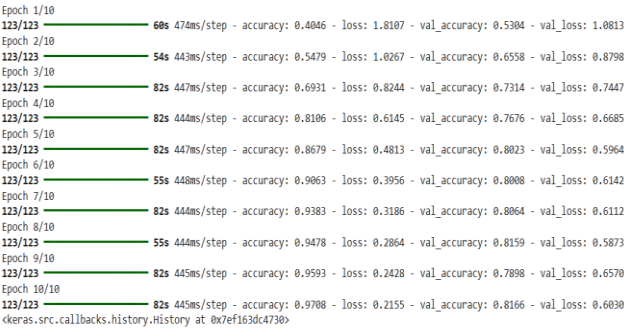
Total params: 0 (0.00 B)
Trainable params: 0 (0.00 B)
Non-trainable params: 0 (0.00 B)

model.summary()

Model: "sequential_1"

Layer (type)	Output Shape	Param #
embedding_1 (Embedding)	?	0 (unbuilt)
conv1d (Conv1D)	?	0 (unbuilt)
global_max_pooling1d_1 (GlobalMaxPooling1D)	?	0 (unbuilt)
dense_2 (Dense)	?	0 (unbuilt)
dropout_1 (Dropout)	?	0 (unbuilt)
dense_3 (Dense)	?	0 (unbuilt)

Total params: 0 (0.00 B)
Trainable params: 0 (0.00 B)
Non-trainable params: 0 (0.00 B)



```
model.summary()
```

Model: "sequential_2"

Layer (type)	Output Shape	Param #
embedding_2 (Embedding)	?	0 (unbuilt)
conv1d_1 (Conv1D)	?	0 (unbuilt)
global_max_pooling1d_2 (GlobalMaxPooling1D)	?	0 (unbuilt)
dense_4 (Dense)	?	0 (unbuilt)
dropout_2 (Dropout)	?	0 (unbuilt)
dense_5 (Dense)	?	0 (unbuilt)

Total params: 0 (0.00 B)
Trainable params: 0 (0.00 B)
Non-trainable params: 0 (0.00 B)