Experimental Report for dt_lgth:4350

Test on:

gru_neurons: [128] **epochs**: [2, 4]

Parameters

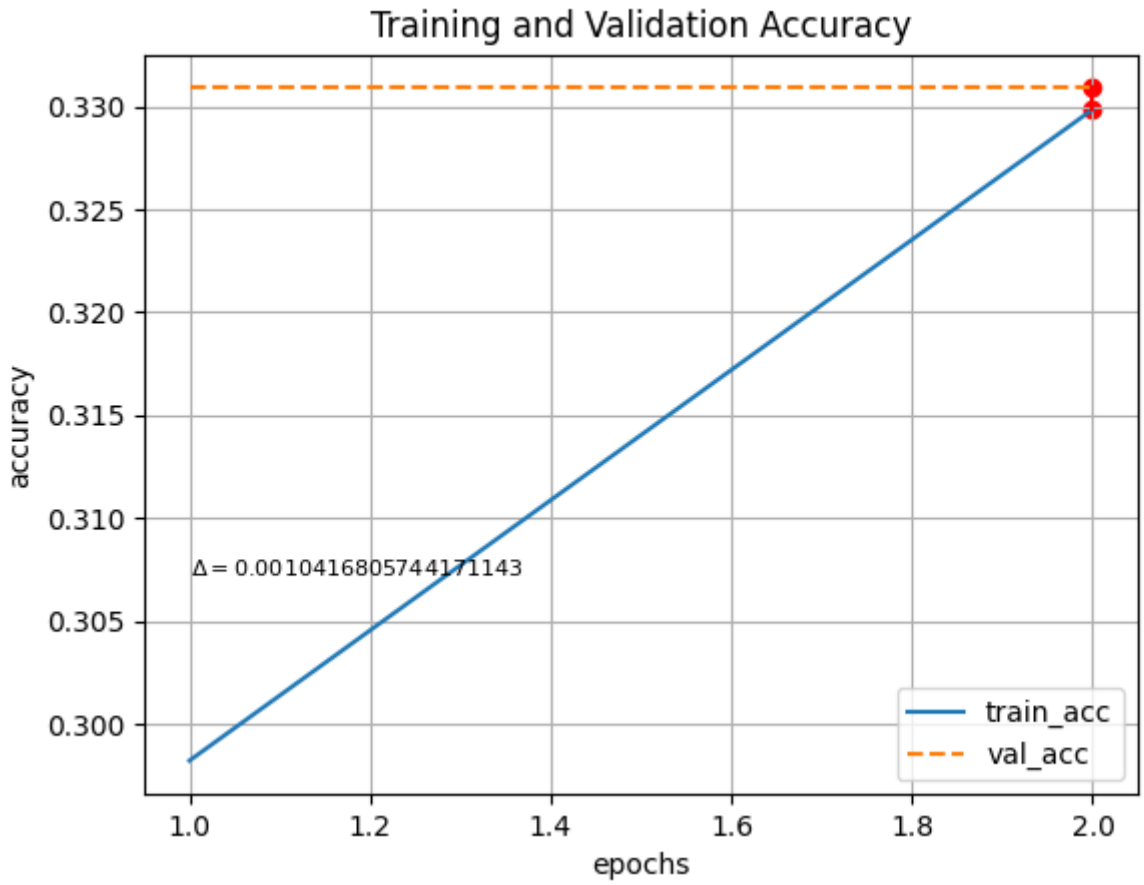
- batch_size : 300
- validation_split : 0.2
- dataset_path : ./datasets/
- learning_rate : 0.001
- dropout_value : 0.5
- dense_neurons : 128
- loss_function : sparse_categorical_crossentropy
- dataset_length : 4350
- percentage True Negatives : 21.4
- percentage names only : None
- percentage other tags : None

Vocab infos

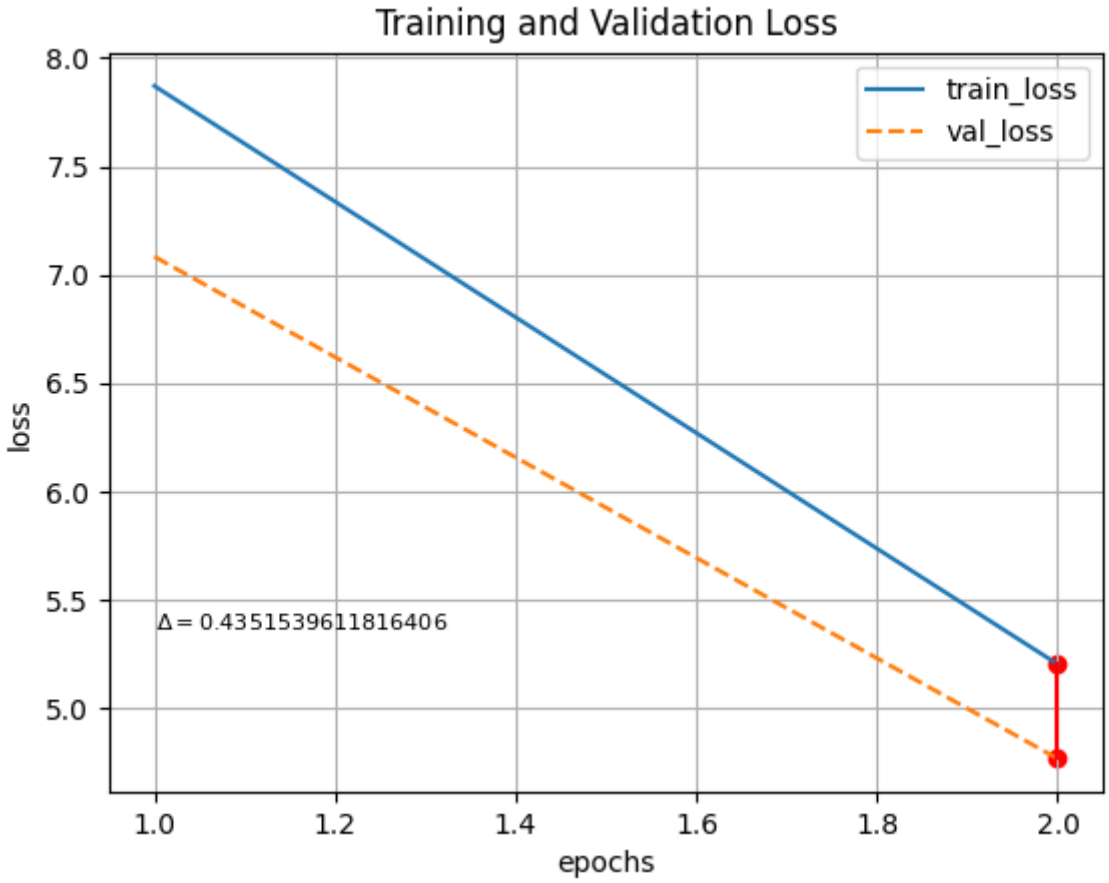
Metric	In vocab	Out vocab
Total nb. of words	32054	23345
Nb. of unique words	3090	3078
Max seq. length	9	8
Vocab size	3089	3077
% True Negatives	24.1	24.1
% no title	None	None

GRU: 128 - Epochs: 2

Learning curves



	Training data	Validation data	Delta
minimum	0.2982	0.3309	0.0327
maximum	0.3298	0.3309	0.001
mean	0.314	0.3309	0.0168



	Training data	Validation data	Delta
minimum	5.2054	4.7702	0.4352
maximum	7.8703	7.0838	0.7865
mean	6.5378	5.927	0.6108

Fitting observations

	Undefitting	Good fitting	Overfitting
Status	Yes	Partially	No

Predictions

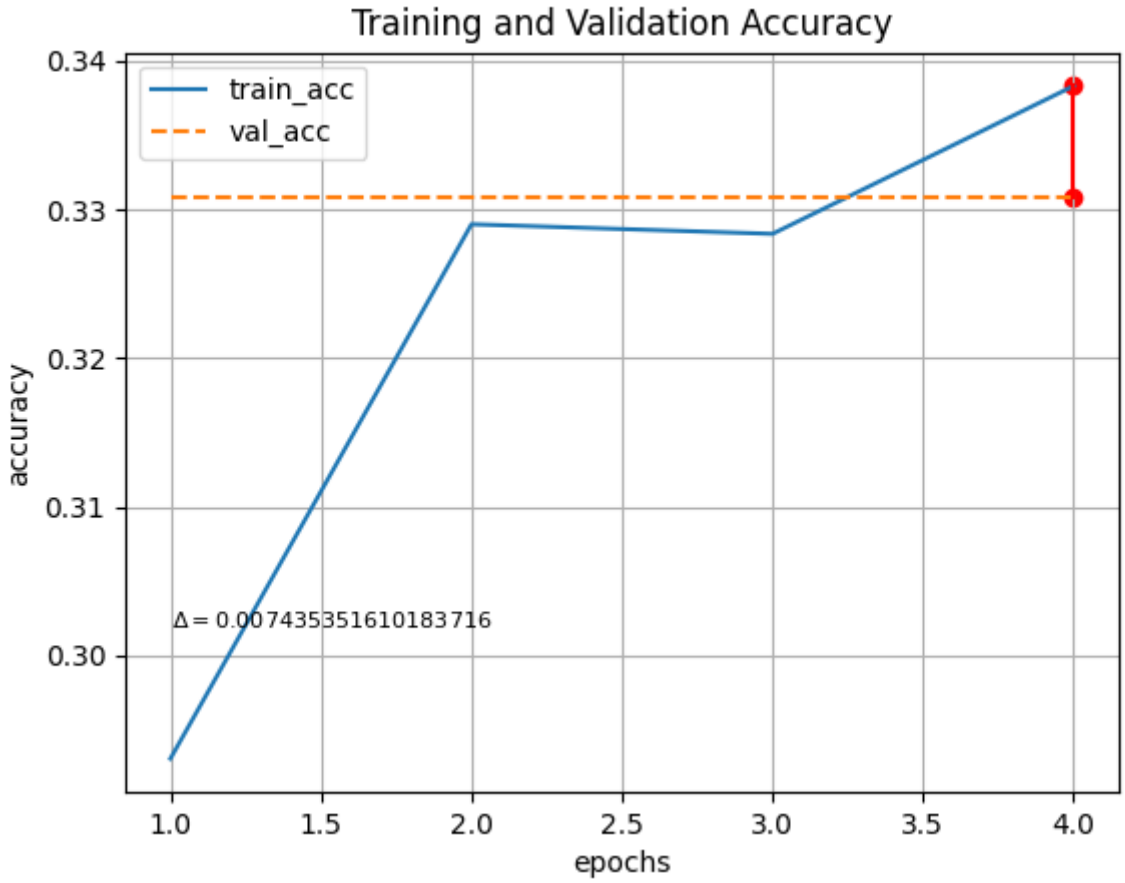
	Seq. to predict	Expected seq.	Predicted seq.
Seq.	init sequence	author mrs ' otis sawayn '	

Bilan

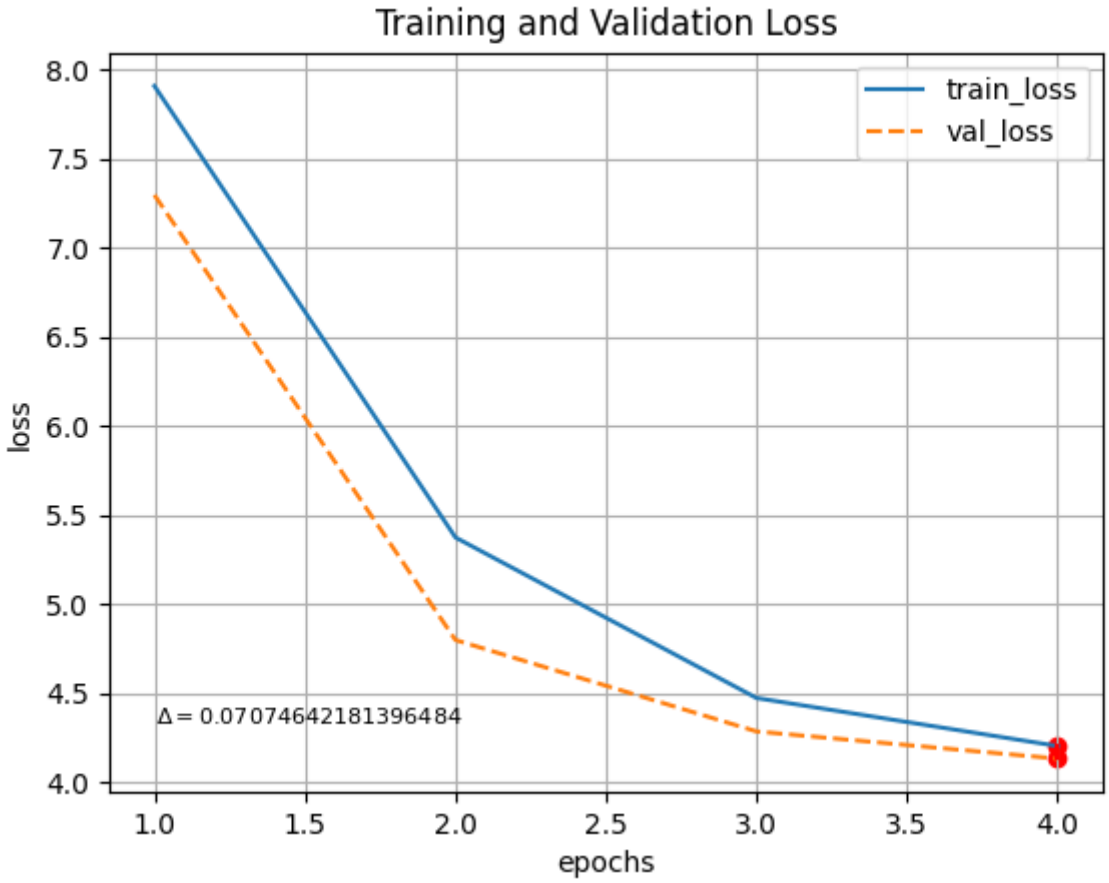
For **128** neurons in GRU and **2** epochs, the training accuracy is gapped at **0.33**, the training loss at **5.21**. The model is **underfitted** and the prediction is correct at **56%**.

GRU: 128 - Epochs: 4

Learning curves



	Training data	Validation data	Delta
minimum	0.2931	0.3309	0.0378
maximum	0.3383	0.3309	0.0074
mean	0.3222	0.3309	0.0087



	Training data	Validation data	Delta
minimum	4.2052	4.1345	0.0707
maximum	7.9062	7.295	0.6112
mean	5.4901	5.1291	0.3611

Fitting observations

	Undefitting	Good fitting	Overfitting
Status	Yes	Partially	No

Predictions

	Seq. to predict	Expected seq.	Predicted seq.
Seq.	init sequence	author mrs ' otis sawayn '	

Bilan

For **128** neurons in GRU and **4** epochs, the training accuracy is gapped at **0.34**, the training loss at **4.21**. The model is **underfitted** and the prediction is correct at **56%**.

Model Summary

Model: "sequential_1"

Layer (type) Output Shape Param #
embedding_1 (Embedding) (None, 8, 100) 309000

gru_2 (GRU) (None, 8, 128) 88320

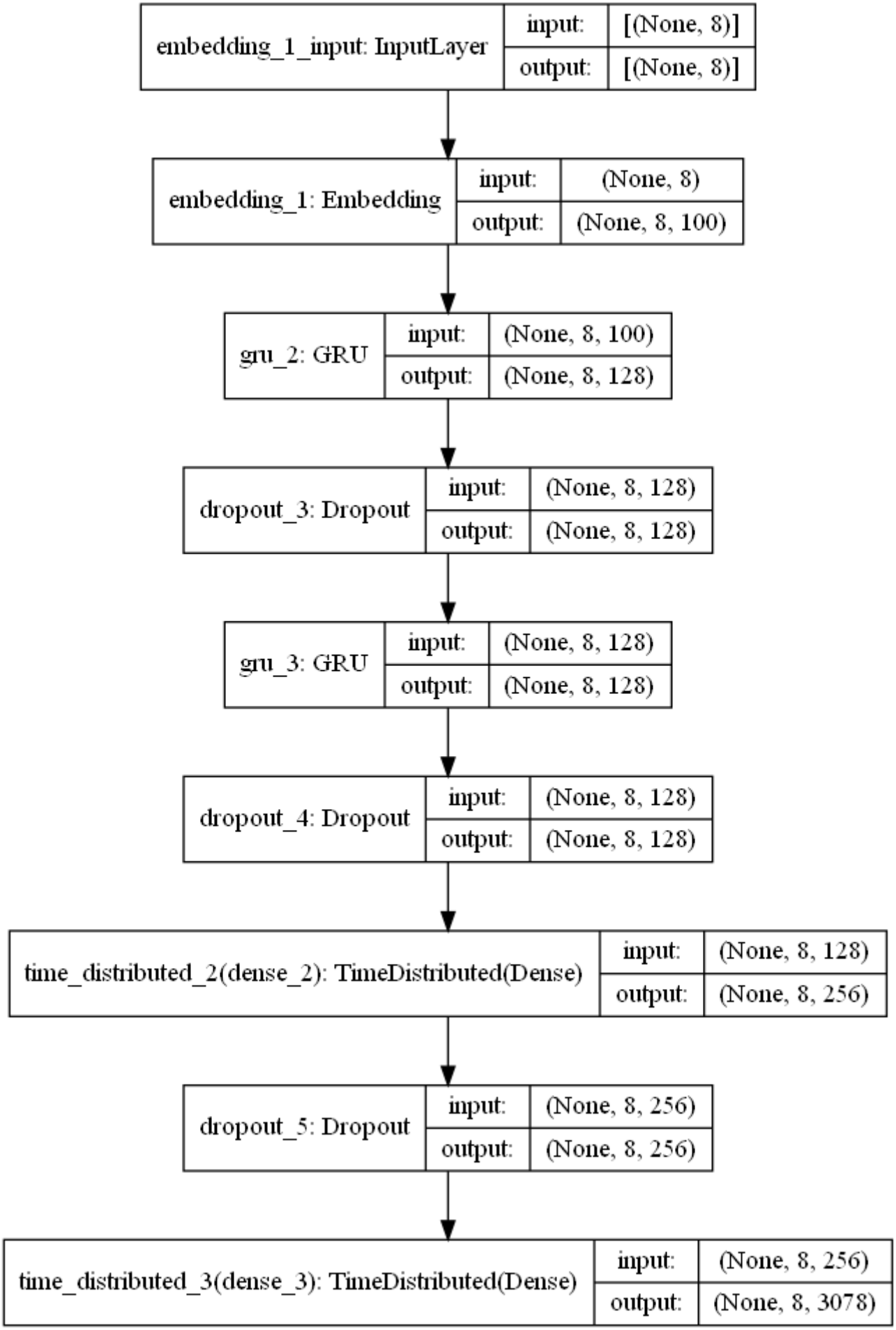
dropout_3 (Dropout) (None, 8, 128) 0

gru_3 (GRU) (None, 8, 128) 99072

dropout_4 (Dropout) (None, 8, 128) 0

time_distributed_2 (TimeDist (None, 8, 256) 33024

dropout_5 (Dropout) (None, 8, 256) 0

time_distributed_3 (TimeDist (None, 8, 3078) 791046
Total params: 1,320,462 Trainable params: 1,320,462 Non-trainable params: 0

Plotted Model