

Experimental Report for dt_lgth:4350

Test on:

gru_neurons: [64, 128]

epochs: [2, 4, 6]

Parameters

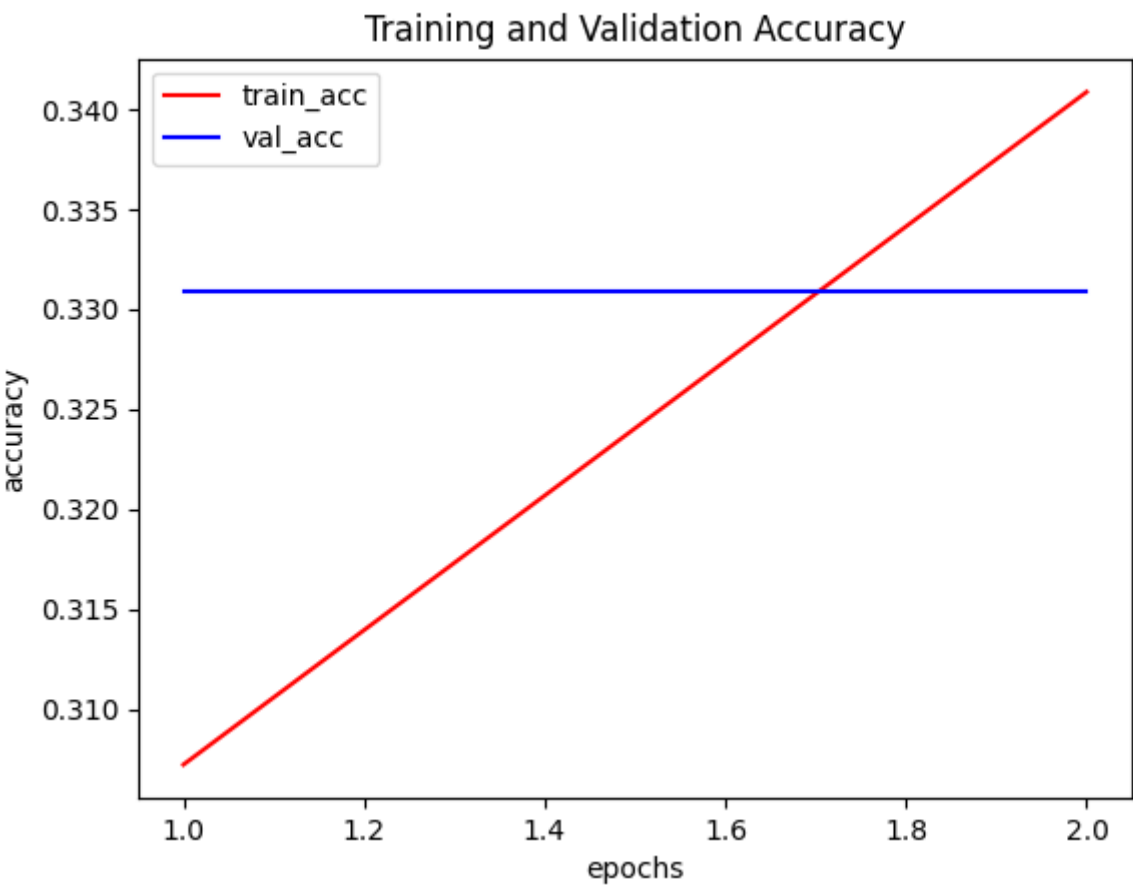
- batch_size : 300
- validation_split : 0.2
- dataset_path : ./datasets/
- learning_rate : 0.001
- dropout_value : 0.5
- dense_neurons : 128
- loss_function : sparse_categorical_crossentropy
- dataset_length : 4350
- percentage True Negatives : 21.4
- percentage names only : None
- percentage other tags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

Vocab infos

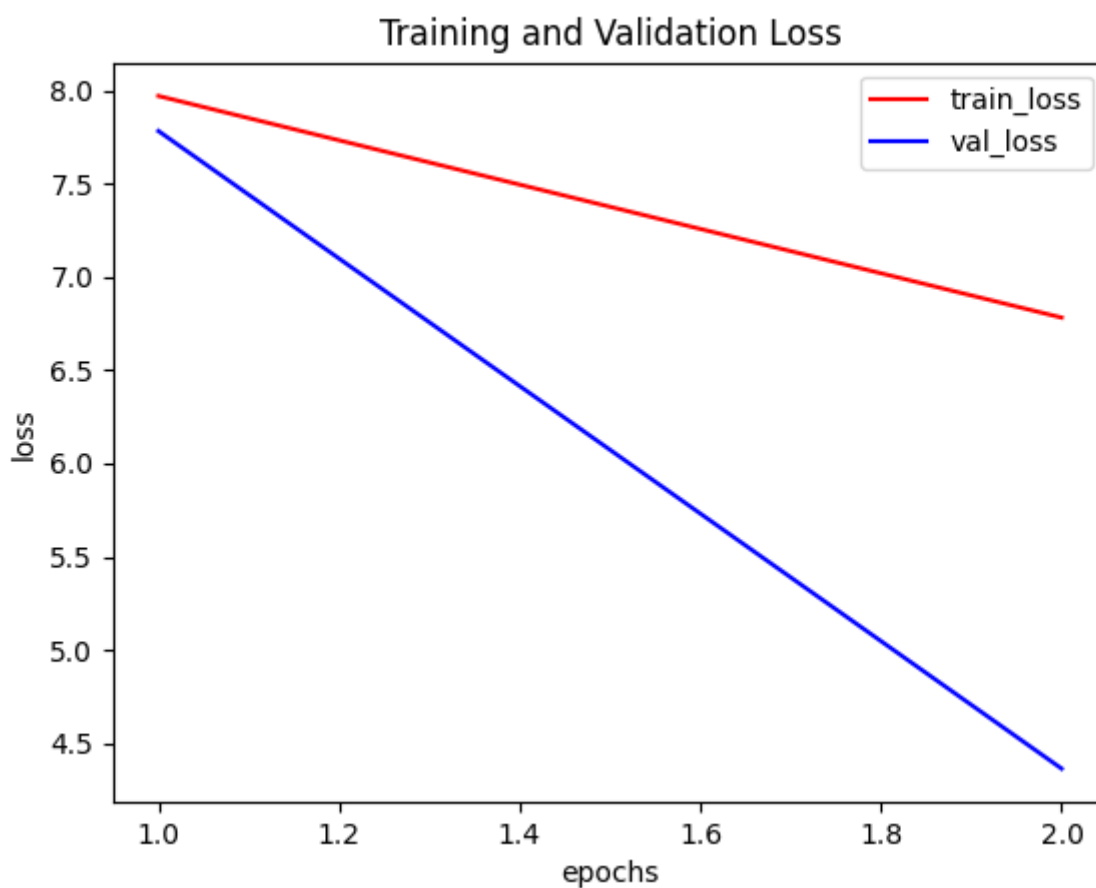
Metric	In vocab	Out vocab
Total nb. of words	32054	23345
Nb. of unique words	3090	3078
Max seq. length	9	8
Vocab size	3089	3077
% True Negatives	24.1	24.1
% no title	None	None

GRU: 64 - Epochs: 2

Learning curves



	Training data	Validation data
minimum	0.27	0.26
maximum	0.69	0.71
mean	0.51	0.5



	Training data	Validation data
minimum	0.27	0.26
maximum	0.68	0.71
mean	0.51	0.5

Fitting observations

	Undefitting	Good fitting	Overfitting
Status	Yes	Partially	No

Predictions

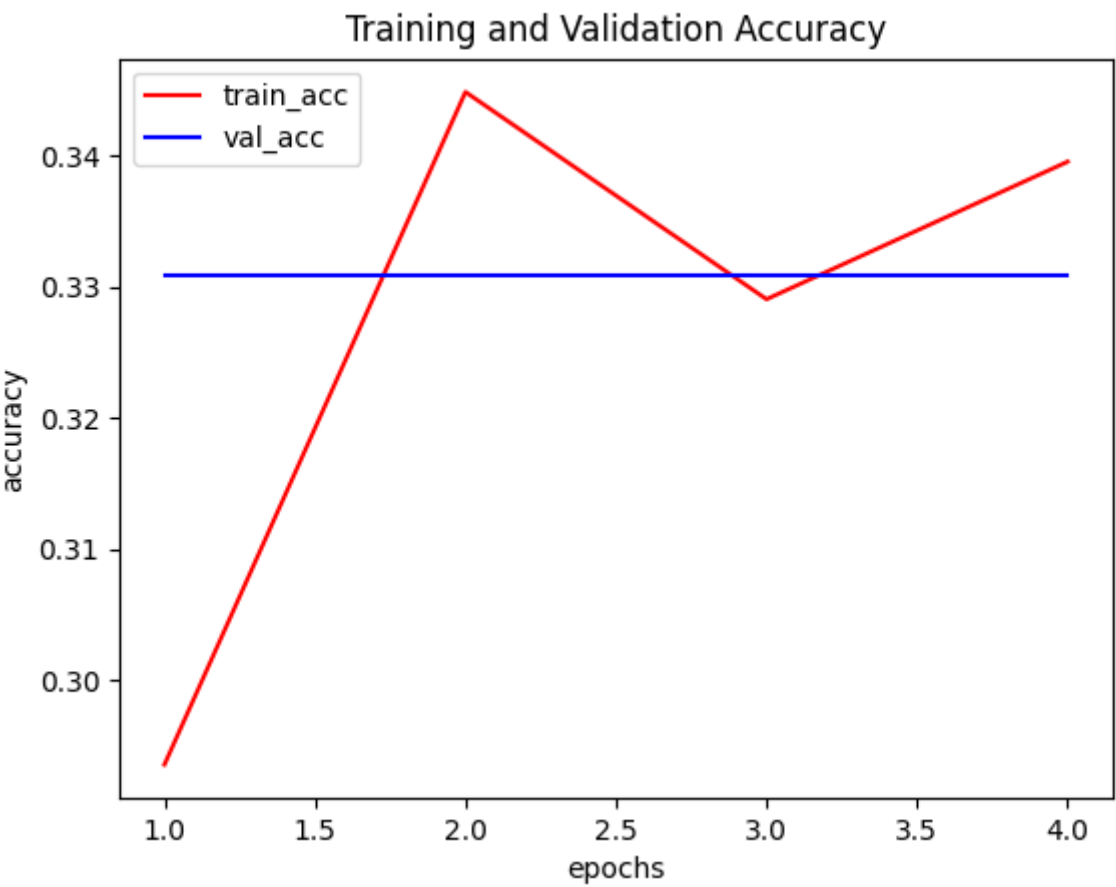
	Seq. to predict	Expected seq.	Predicted seq.
Seq.	<authors author:'John Da'/>	author: 'John Da'	author: 'Mr. Luc Da'

Bilan

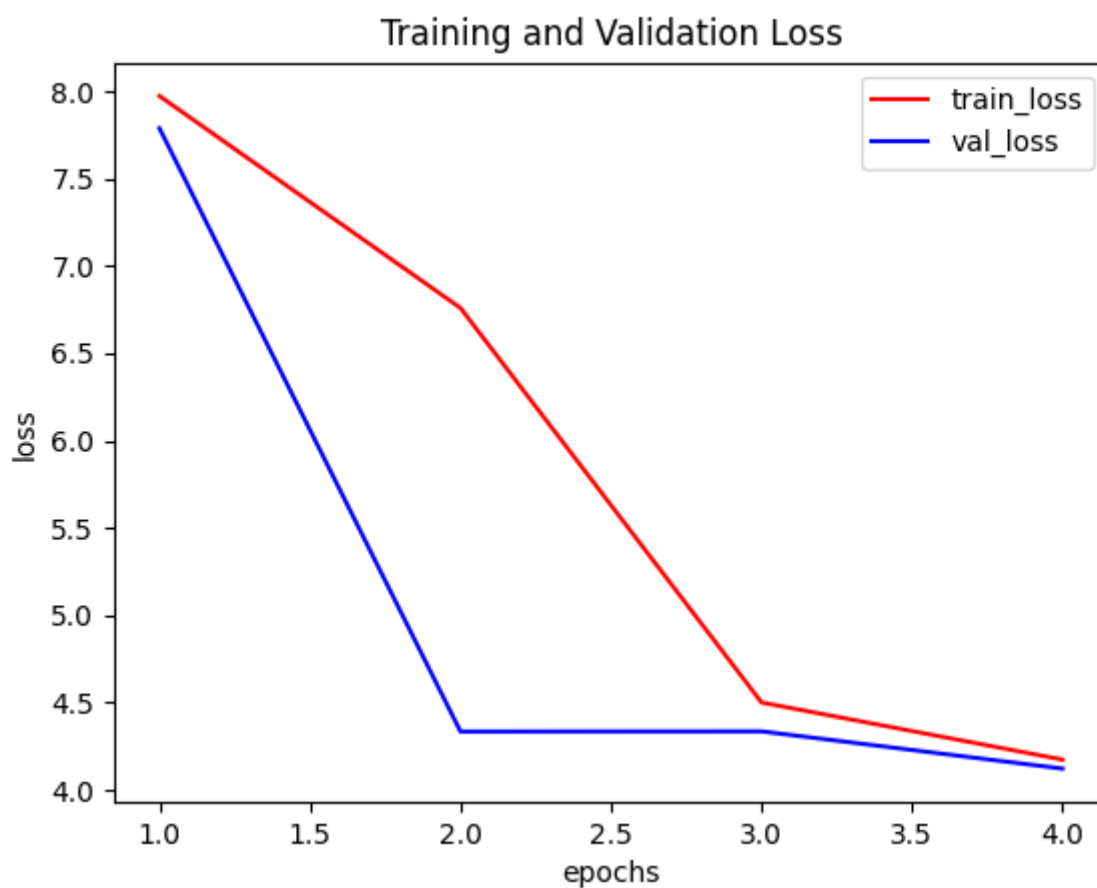
For **64** neurons in GRU and **2** epochs, the training accuracy is gapped at **0.69**, the training loss at **0.68**. The model is **underfitted** and the prediction is correct at **56%**.

GRU: 64 - Epochs: 4

Learning curves



	Training data	Validation data
minimum	0.27	0.26
maximum	0.69	0.71
mean	0.51	0.5



	Training data	Validation data
minimum	0.27	0.26
maximum	0.68	0.71
mean	0.51	0.5

Fitting observations

	Undefitting	Good fitting	Overfitting
Status	Yes	Partially	No

Predictions

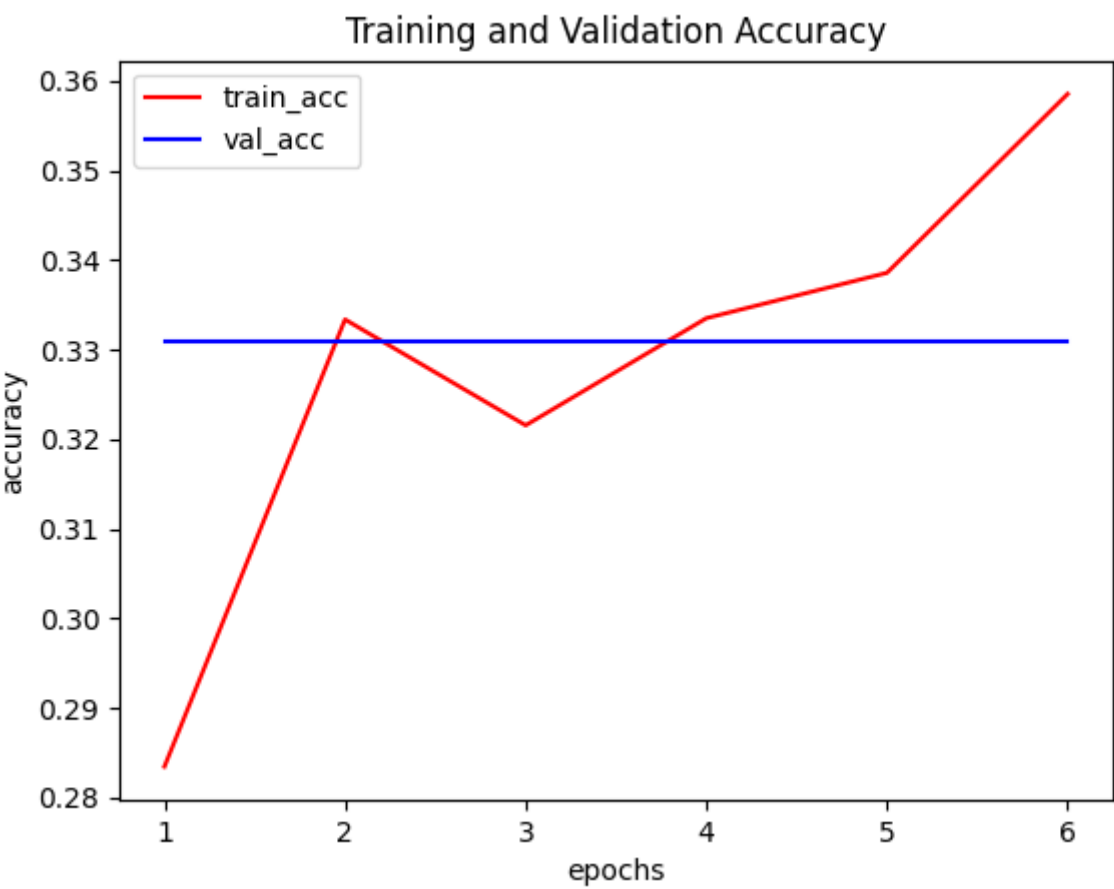
	Seq. to predict	Expected seq.	Predicted seq.
Seq.	<authors author:'John Da'/>	author: 'John Da'	author: 'Mr. Luc Da'

Bilan

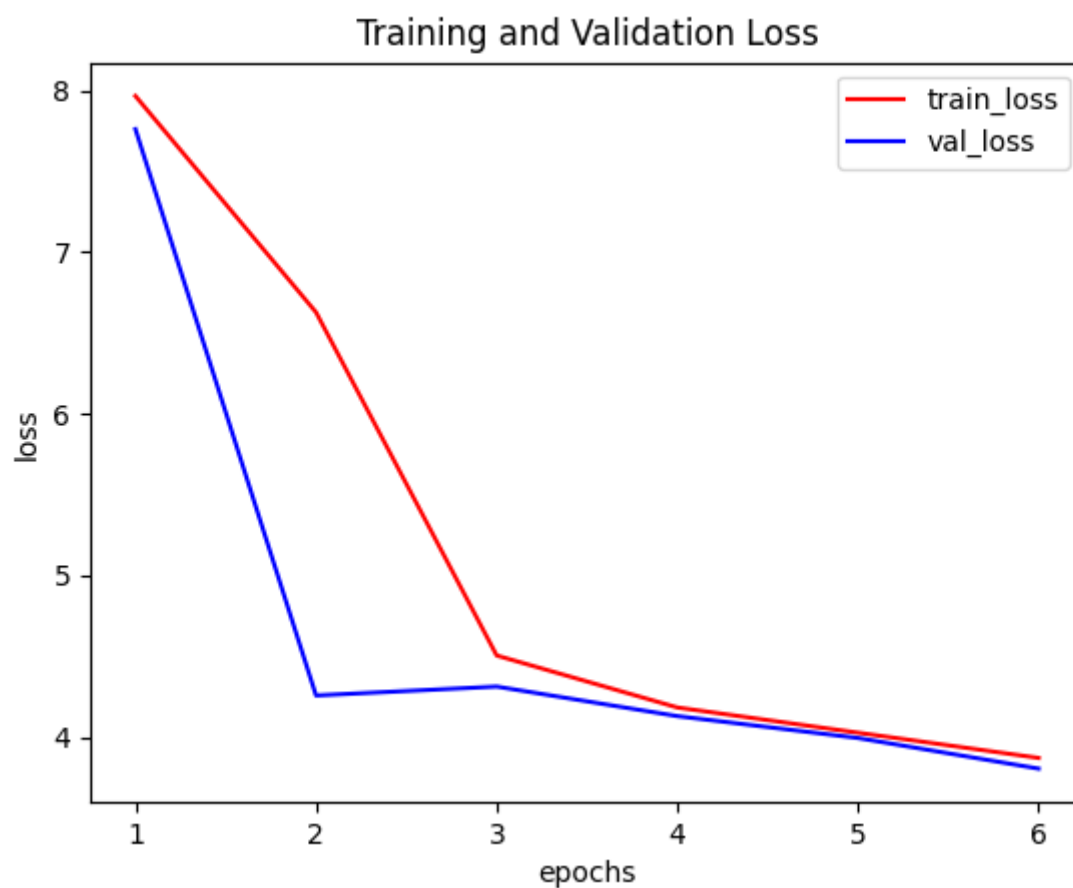
For **64** neurons in GRU and **4** epochs, the training accuracy is gapped at **0.69**, the training loss at **0.68**. The model is **underfitted** and the prediction is correct at **56%**.

GRU: 64 - Epochs: 6

Learning curves



	Training data	Validation data
minimum	0.27	0.26
maximum	0.69	0.71
mean	0.51	0.5



	Training data	Validation data
minimum	0.27	0.26
maximum	0.68	0.71
mean	0.51	0.5

Fitting observations

	Undefitting	Good fitting	Overfitting
Status	Yes	Partially	No

Predictions

	Seq. to predict	Expected seq.	Predicted seq.
Seq.	<authors author:'John Da'/>	author: 'John Da'	author: 'Mr. Luc Da'

Bilan

For **64** neurons in GRU and **6** epochs, the training accuracy is gapped at **0.69**, the training loss at **0.68**. The model is **underfitted** and the prediction is correct at **56%**.

Model Summary

Model: "sequential_2"

Layer (type)	Output Shape	Param #
embedding_2 (Embedding)	(None, 8, 100)	309000

gru_4 (GRU)	(None, 8, 64)	31872
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dropout_6 (Dropout)	(None, 8, 64)	0
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gru_5 (GRU)	(None, 8, 64)	24960
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dropout_7 (Dropout)	(None, 8, 64)	0
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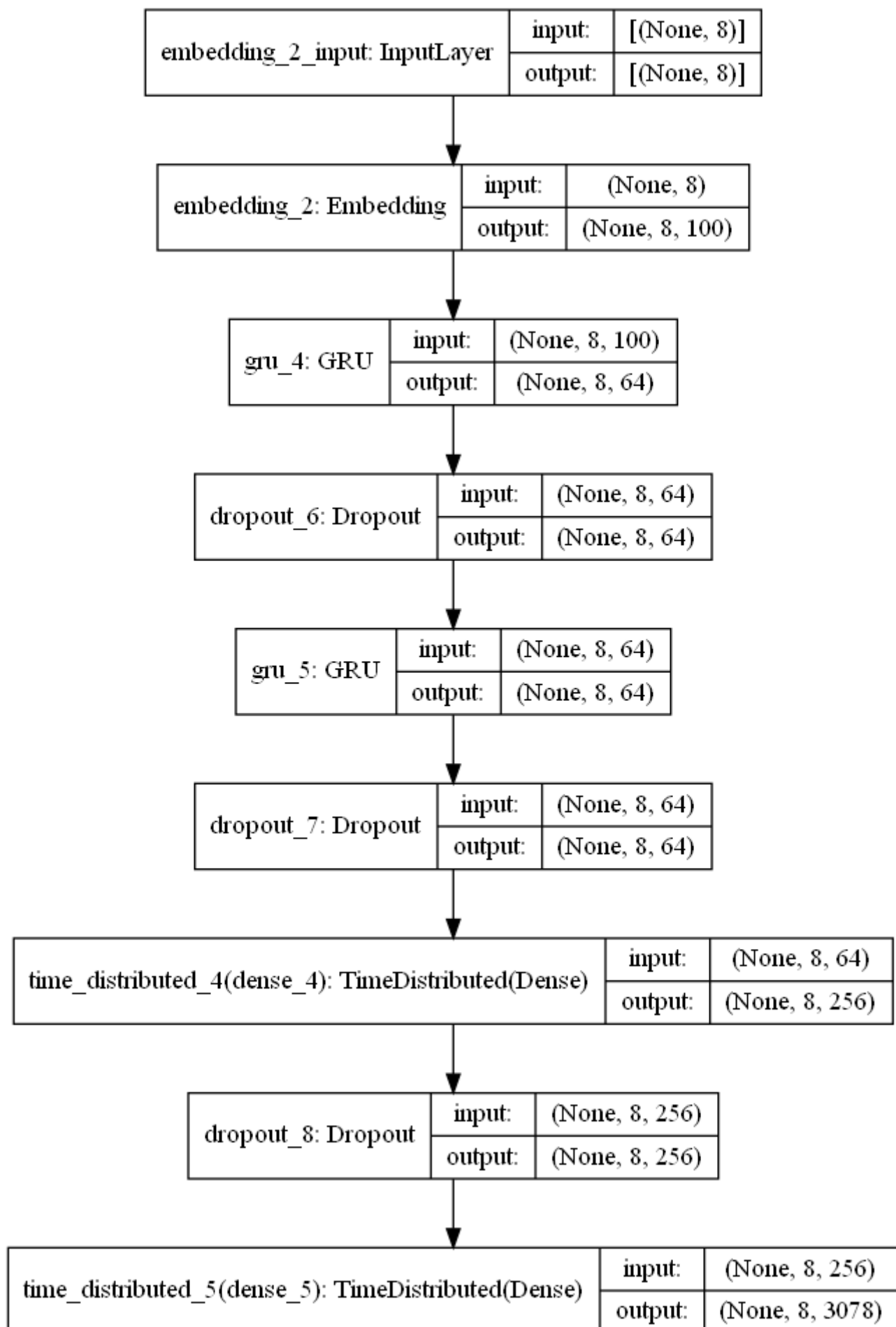
time_distributed_4 (TimeDist)	(None, 8, 256)	16640
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dropout_8 (Dropout)	(None, 8, 256)	0
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time_distributed_5 (TimeDist)	(None, 8, 3078)	791046
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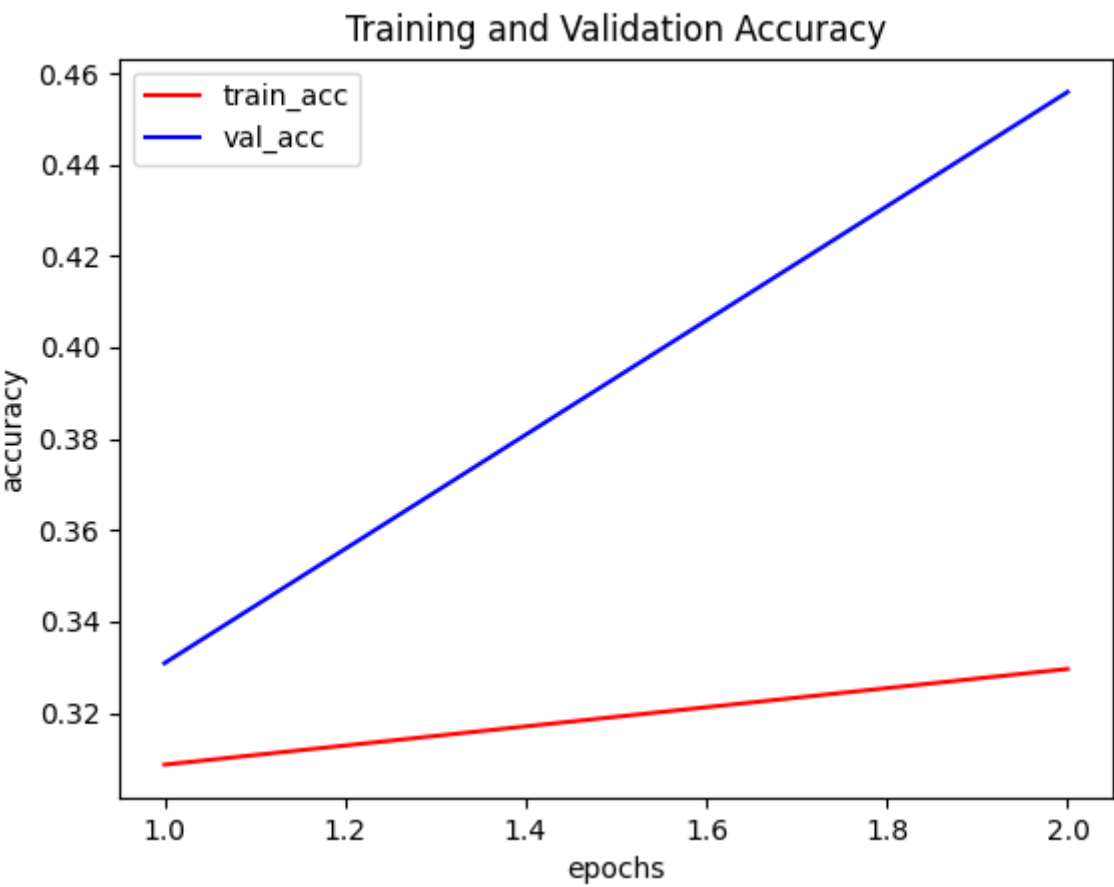
Total params: 1,173,518 Trainable params: 1,173,518 Non-trainable params: 0

Plotted Model

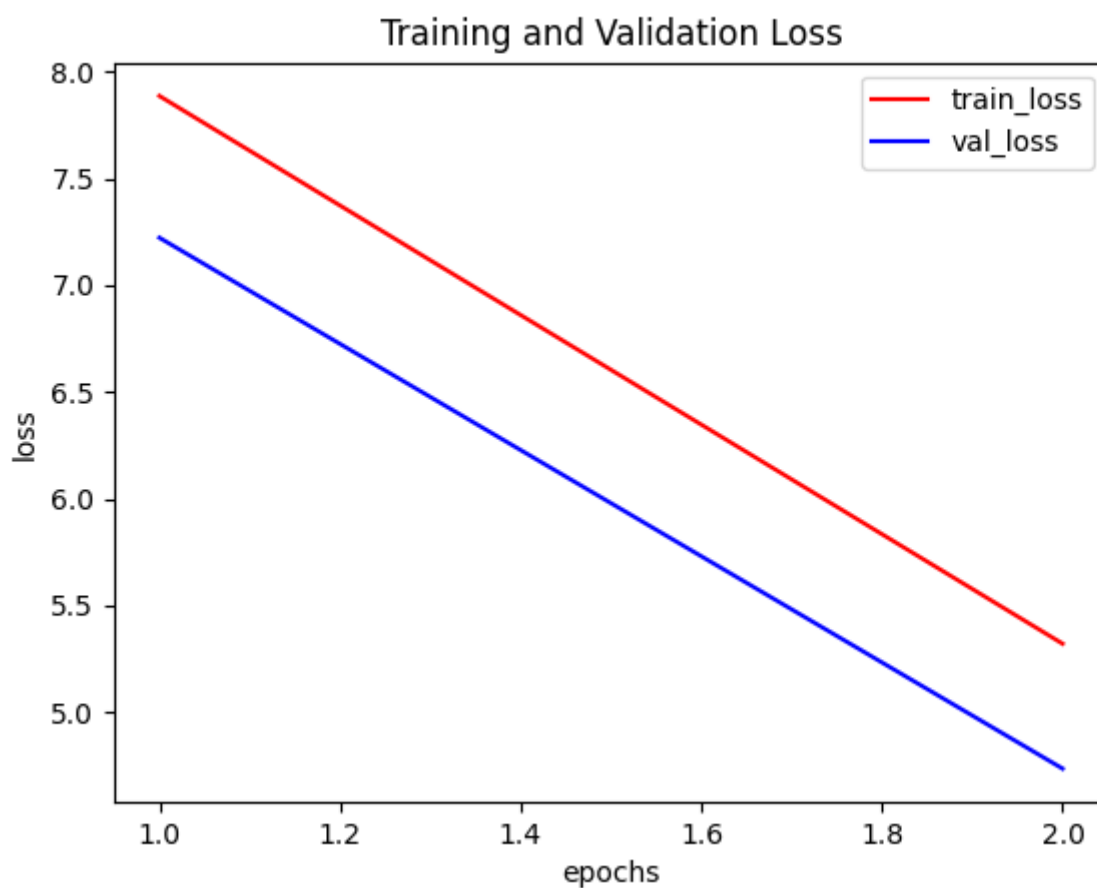


GRU: 128 - Epochs: 2

Learning curves



	Training data	Validation data
minimum	0.27	0.26
maximum	0.69	0.71
mean	0.51	0.5



	Training data	Validation data
minimum	0.27	0.26
maximum	0.68	0.71
mean	0.51	0.5

Fitting observations

	Undefitting	Good fitting	Overfitting
Status	Yes	Partially	No

Predictions

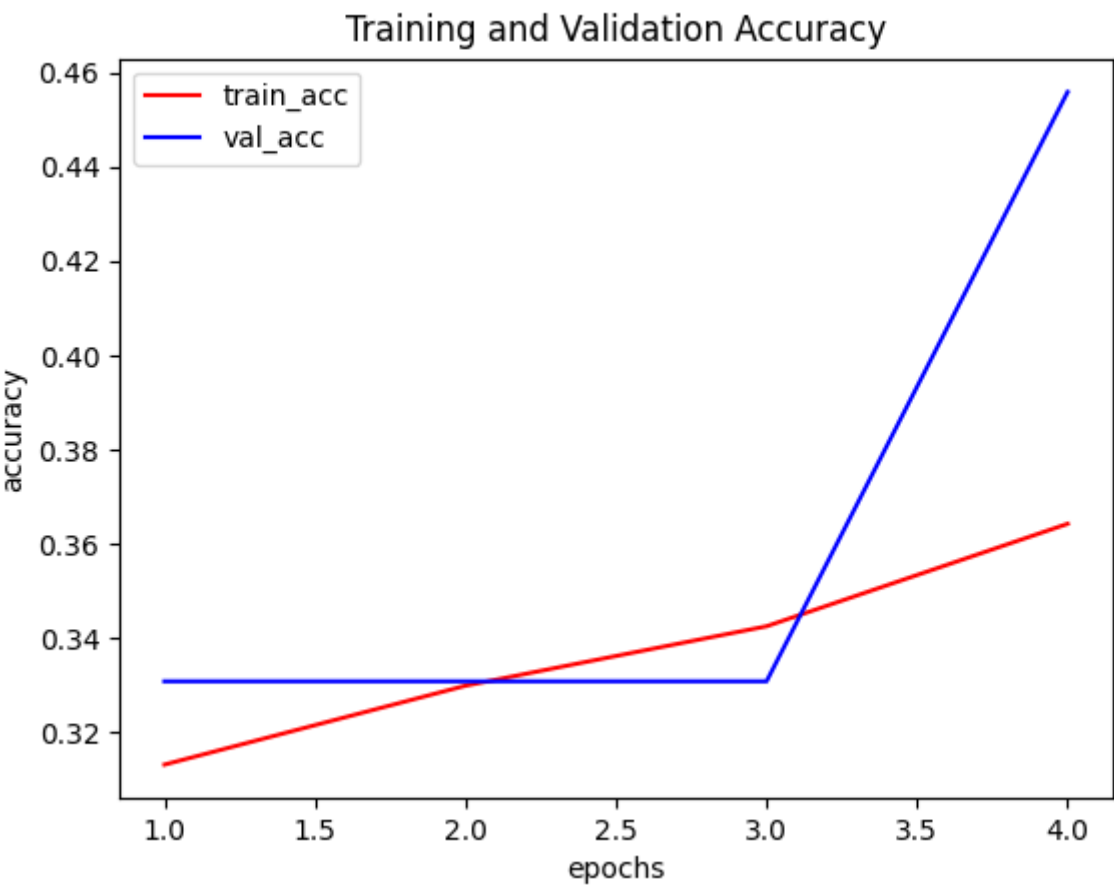
	Seq. to predict	Expected seq.	Predicted seq.
Seq.	<authors author:'John Da'/>	author: 'John Da'	author: 'Mr. Luc Da'

Bilan

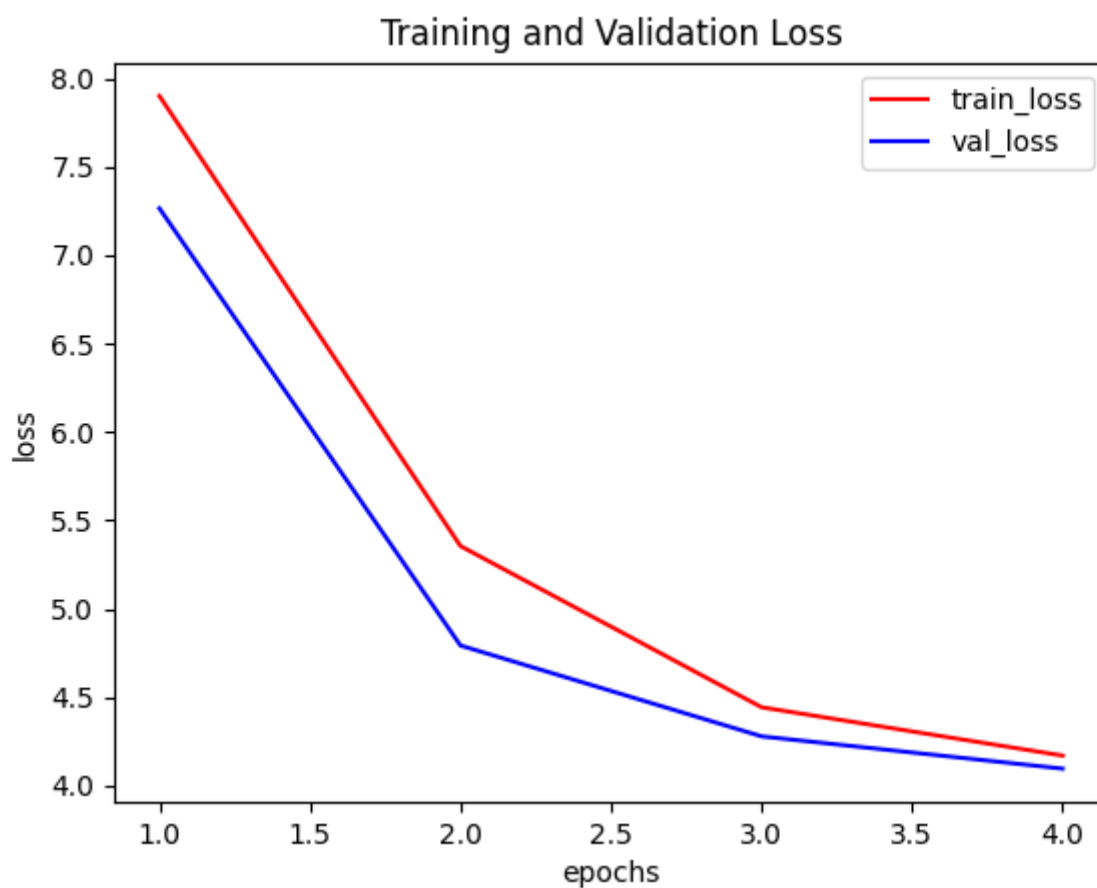
For **128** neurons in GRU and **2** epochs, the training accuracy is gapped at **0.69**, the training loss at **0.68**. The model is **underfitted** and the prediction is correct at **56%**.

GRU: 128 - Epochs: 4

Learning curves



	Training data	Validation data
minimum	0.27	0.26
maximum	0.69	0.71
mean	0.51	0.5



	Training data	Validation data
minimum	0.27	0.26
maximum	0.68	0.71
mean	0.51	0.5

Fitting observations

	Undefitting	Good fitting	Overfitting
Status	Yes	Partially	No

Predictions

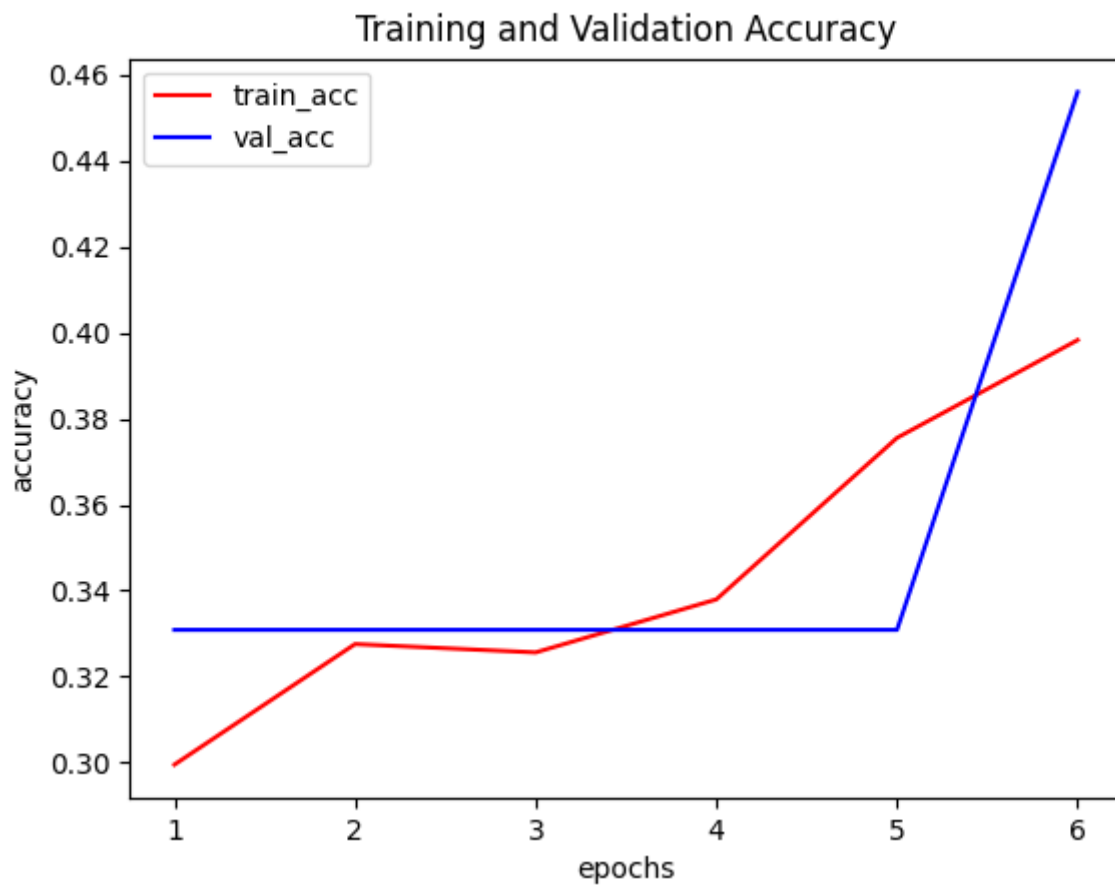
	Seq. to predict	Expected seq.	Predicted seq.
Seq.	<authors author:'John Da'/>	author: 'John Da'	author: 'Mr. Luc Da'

Bilan

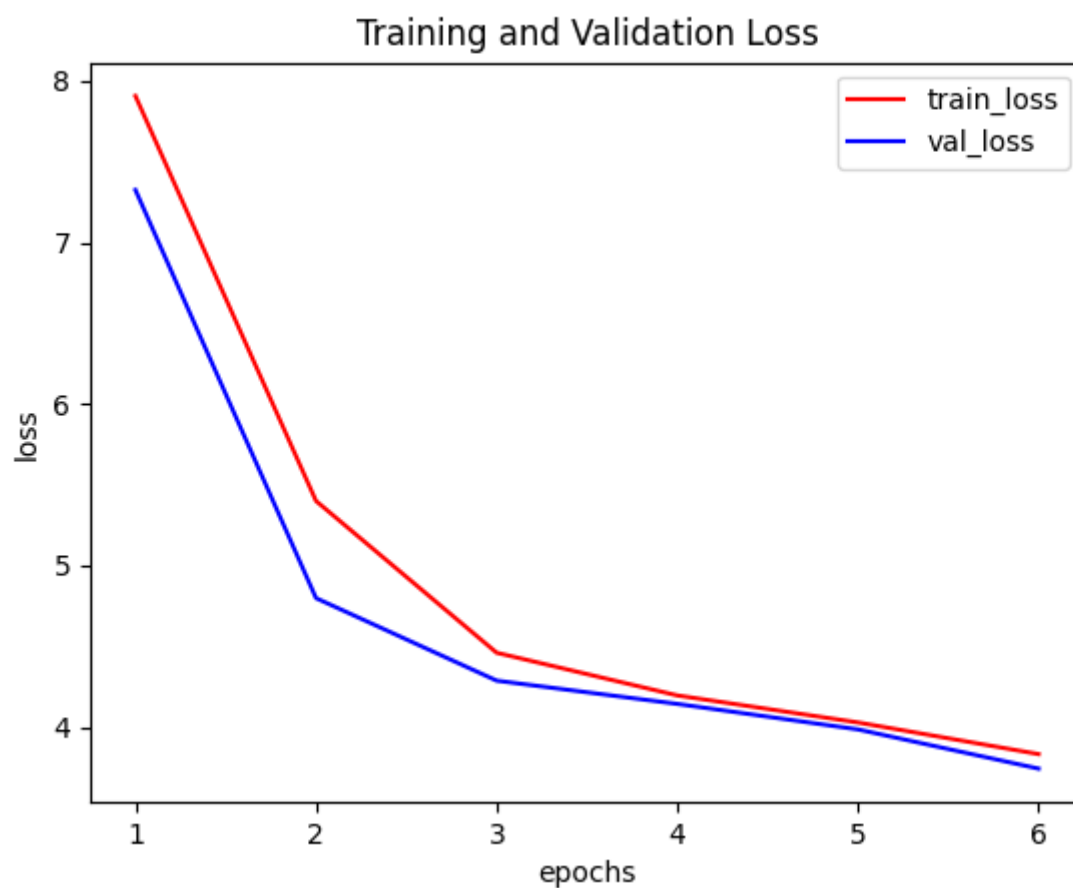
For **128** neurons in GRU and **4** epochs, the training accuracy is gapped at **0.69**, the training loss at **0.68**. The model is **underfitted** and the prediction is correct at **56%**.

GRU: 128 - Epochs: 6

Learning curves



	Training data	Validation data
minimum	0.27	0.26
maximum	0.69	0.71
mean	0.51	0.5



	Training data	Validation data
minimum	0.27	0.26
maximum	0.68	0.71
mean	0.51	0.5

Fitting observations

	Undefitting	Good fitting	Overfitting
Status	Yes	Partially	No

Predictions

	Seq. to predict	Expected seq.	Predicted seq.
Seq.	<authors author:'John Da'/>	author: 'John Da'	author: 'Mr. Luc Da'

Bilan

For **128** neurons in GRU and **6** epochs, the training accuracy is gapped at **0.69**, the training loss at **0.68**. The model is **underfitted** and the prediction is correct at **56%**.

Model Summary

Model: "sequential_5"

Layer (type)	Output Shape	Param #
embedding_5 (Embedding)	(None, 8, 100)	309000

gru_10 (GRU)	(None, 8, 128)	88320
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dropout_15 (Dropout)	(None, 8, 128)	0
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gru_11 (GRU)	(None, 8, 128)	99072
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dropout_16 (Dropout)	(None, 8, 128)	0
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time_distributed_10 (TimeDis)	(None, 8, 256)	33024
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dropout_17 (Dropout)	(None, 8, 256)	0
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time_distributed_11 (TimeDis)	(None, 8, 3078)	791046
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Total params: 1,320,462 Trainable params: 1,320,462 Non-trainable params: 0

Plotted Model

