

PROJECT - RNN „TV SCRIPT GENERATION“: HYPERPARAMETERS

Serie 1 #	Sequence Length	Batch Size	Number of Epochs	Learning Rate	0.01Vocab_size	Output_size	Embedding Dimension	Hidden Dimension	Number of RNN Layers	Loss	Comment
1	5	128	3	0.001	70000	70000	100	500	3	10.37	Ok
	10	128	100	0.0001	len(vocab_to_int)) = 21388	len(vocab_to_int)) = 21388	100	500	3		Workspace Error
2	10		20	0.001	len(vocab_to_int)) = 21388	len(vocab_to_int)) = 21388				9.17	Ok
3				0.0005						9.16	Ok
4			10	0.0001						9.16	Ok
5	7									9.16	Ok
6								200		9.16	Ok
7									2	9.16	Ok
8							30			9.16	Ok
9		64								9.16	Ok
10				0.00001						9.18	Ok
11								500		9.16	Ok
12							100			9.16	Ok
13							20		3	9.17	Ok
14									5	9.17	Ok
15	15	32								9.17	
16			20							9.17	
17			50							9.16	
				0.01							Interrupted

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Serie 2 #	Sequence Length	Batch Size	Number of Epochs	Learning Rate	0.01Vocab_size	Output_size	Embedding Dimension	Hidden Dimension	Number of RNN Layers	Loss	Comment
1	5	32	20	0.01	len(vocab_to_int)) =21388	len(vocab_to_int)) =21388	200	500	3	9.4	



Change Batching → shuffle = True

	Sequence Length	Batch Size	Number of Epochs	Learning Rate	0.01Vocab_size	Output_size	Embedding Dimension	Hidden Dimension	Number of RNN Layers	Loss	Comment
2	5	32	20	0.01	len(vocab_to_int)) =21388	len(vocab_to_int)) =21388	200	500	3	9.37	



Change Batching → targets become part of dataset

	Sequence Length	Batch Size	Number of Epochs	Learning Rate	0.01Vocab_size	Output_size	Embedding Dimension	Hidden Dimension	Number of RNN Layers	Loss	Comment
3	5	32	20	0.01	len(vocab_to_int)) =21388	len(vocab_to_int)) =21388	200	500	3	9.61	Loss increased with training. Starting Point: 9.4
4	10									9.35	
5	15									9.37	
6	10			0.001						9.17	
7				0.0001						9.12	
8				0.00001						9.16	
9		64		0.0001						9.14	Learning progress still significant at Epoch = 20
10		128	30							9.14	Learning progress still significant at Epoch = 30
11		64	50							9.06	Learning progress still significant at Epoch = 50

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Serie 3 #	Sequence Length	Batch Size	Number of Epochs	Learning Rate	0.01Vocab_size	Output_size	Embedding Dimension	Hidden Dimension	Number of RNN Layers	Loss	Comment
1	10	64	30	0.0001	len(vocab_to_int)) =21388	len(vocab_to_int)) =21388	200	500	2	9.08	
2								250		9.11	
3								750		9.09	
4							100	500		9.09	
5			(76/106) 150							(9.03/9.02/)	