

Deep Learning - Homework 1

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1 Question 1

1.1 Question 1.1

1.2 Question 1.2

1.3 Question 1.3

1.4 Question 1.4

2 Question 2

2.1 Question 2.1

2.2 Question 2.2

2.3 Question 2.3

3 Question 3

3.1 Question 3.1

After running the code, the following plots were generated:

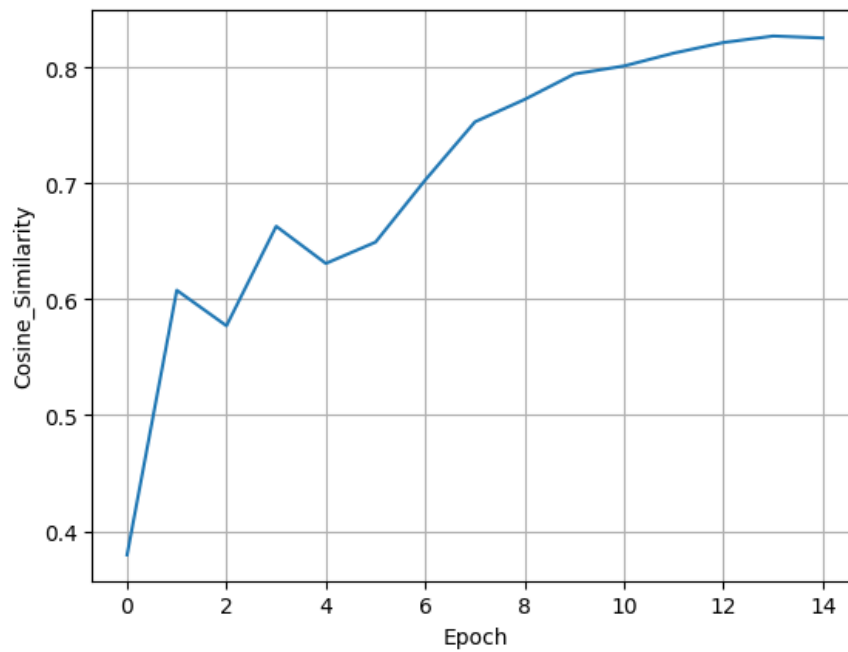


Figure 1: Cosine similarity

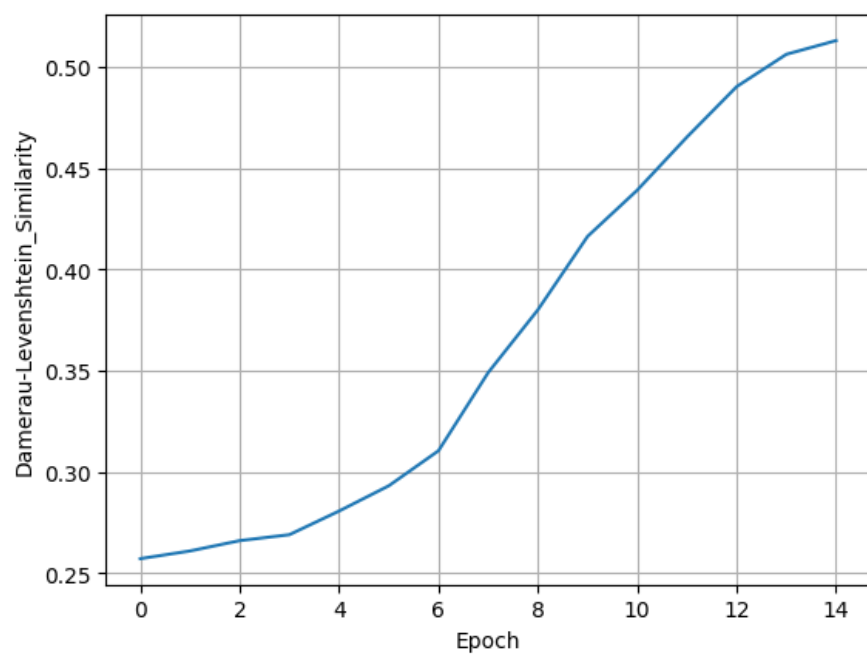


Figure 2: Damerau-Levenshtein similarity

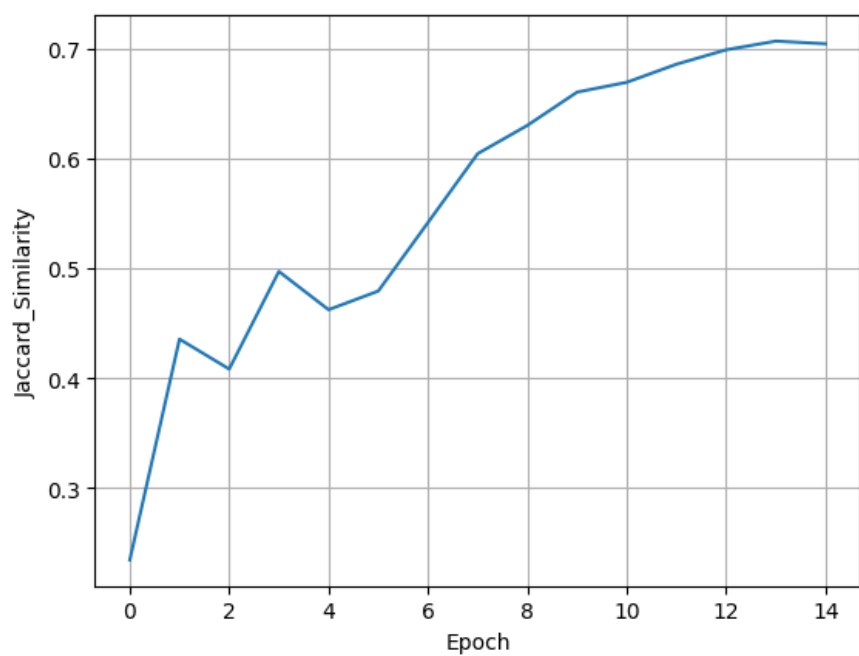


Figure 3: Jaccard similarity

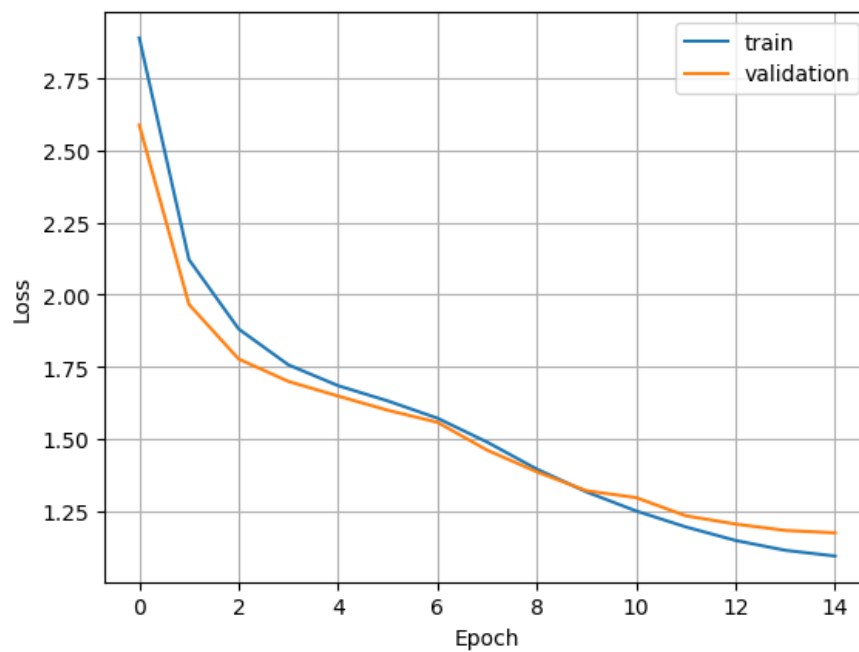


Figure 4: Validation and training loss

In the test set, the jaccard similarity was 0.715, the cosine similarity was 0.832 and the damereau-levenshtein similarity was 0.509. The final test loss was 1.183.

3.2 Question 3.2

3.3 Question 3.3

3.4 Question 3.4

4 Credits

5 Sources