**Report Assignment 2**

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## **Introduction**

### **Objectives**

The report covers the changes made to the model's text preprocessing, specifically switching from character level tokenization to word level tokenization with a comparison of the model's performance using both methods. Additionally, the process of hyperparameter optimization, including the various settings explored for learning rate, hidden layers (number and size), batch size, optimizer, and activation function. Finally we discuss the findings from this optimization.

### **Overview of the work**

## **Methodology**

## **Experiments and Results**

### Comparison between character-level and word-level tokenization.

### Tables/graphs for hyper-parameter experiments.

### Final model performance with mean accuracy and standard error.

## **Discussion**

## **Conclusion**