

# Ass 3 – Part 1.3

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## Model's Parameters

- Number of epochs: 3
- Activation function: ReLU
- Optimizer: Adam
- Learning rate: 1e-3
- Embedding dim: 30
- Lstm output dim: 30
- Size of the hidden layer: 25
- Train set size: 2000
- Test set size: 500

## summary of the experiment

- My model succeed in distinguishing between the 2 languages. In the first epoch, I got 50% accuracy on both training set and test set. In the second epoch, I got 99.9% accuracy on the training set and 99.8% on the test set. In the last epoch, I got 100% accuracy on both training set and test set. As the results show, the model succeed on both train and test.
- Overall it took 3 epochs to train, each epoch taking  $\approx 12$  seconds which summed up to  $\approx 36$  seconds overall (including running the test set after each epoch).
- In order to make it work I mostly tried different sizes for both training set and test set. I also tried couple of options for the embedding dim, Lstm output dim and the size of the hidden layer.