

# DL for NLP - Ass. 3 - report1

Itamar Trainin, Guy Gispan

January 2020

**a.**

In training the challenge model we have used a train set of size 3000 sequences and test set of size 1000 sequences.

**b.**

Our network succeeded in distinguishing between the two languages. It took about 5 epochs for both train and test to reach 100% (best result).

**c.**

The time elapsed was 593 seconds.

**d.**

Our model was successful in distinguishing between the languages on both train and test sets. The LSTM model is equivalent to a finite state machine and therefore once it realized the 'rule' in the data, it was able to immediately classify correctly. This is also the reason why we see such a sharp change in the accuracy (a jump from 55% to 100%).

**e.**

In order to make the model work we had to limit the sequence size to 100 characters.