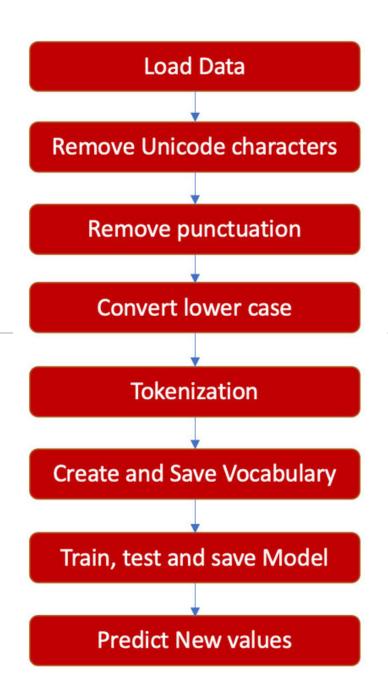
MINI-PROJECT V

TRANSLATOR ENGLISH-FRENCH

Process Overview

Natural Language Processing and Deep learning Automatic manipulation of language.



Tools

Python 3.8: Numpy, Keras, Pandas, Pickle.

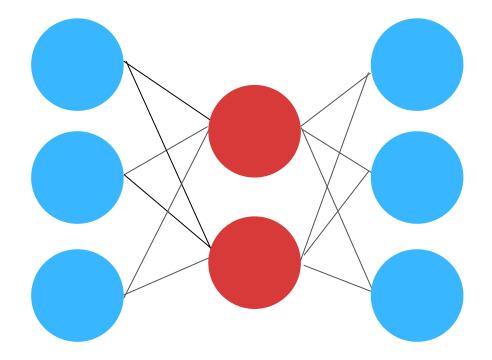
Bash: iconv and strings.

Jupyter Lab

Google Colaboratory

Model

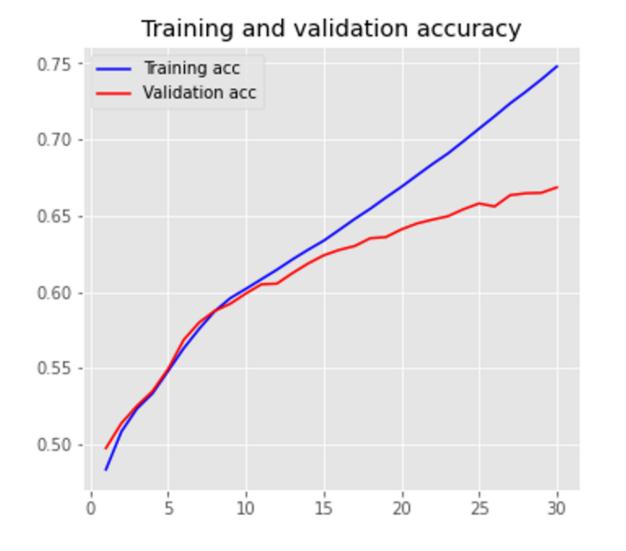
Architecture: LSTM

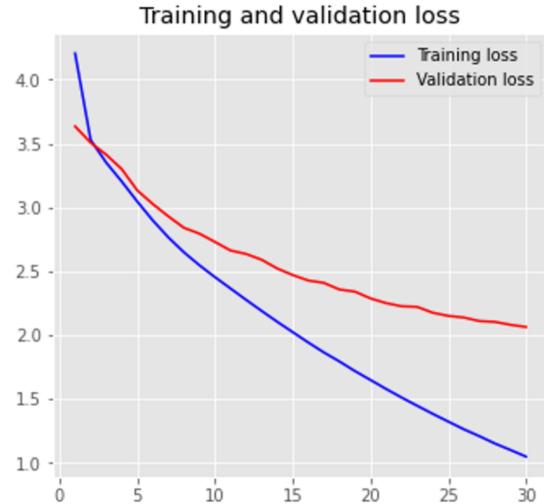


5 Layers

- 1.Input
- 2.LSTM
- 3.RepeatVector
- 4.LSTM
- 5. Output (softmax)

Training and Validation





Training accuracy: 0.7481

Validation accuracy: 0.6710

Training loss: 1.0255
Validation loss: 2.0641

Translation Results



Conclusions

RNN ARCHITECTURES

Powerful tool for NLP

COMPUTING RESOURCES

Deep learning architectures require powerful computers

BETTER UNDERSTANDING

More tiem to resarch about architectures and test different datasets

