

Spell Corrector with Machine Learning

Project Type: Computer Engineering Second Term Engineering Project 2 Lesson's Project

Consultant of Project: Dr. Nazlı Tekin

Team of the Project: Berkay Narin (Second Grade Computer Engineering Student)

Aim of the Project: This project aims to correct the wrongly spelling words by utilizing machine learning algorithms in a web application.

Results of the Project: In this project, I used the word2vec technique and various python techniques to build a spell corrector in a website application.

The steps can be explained like below;

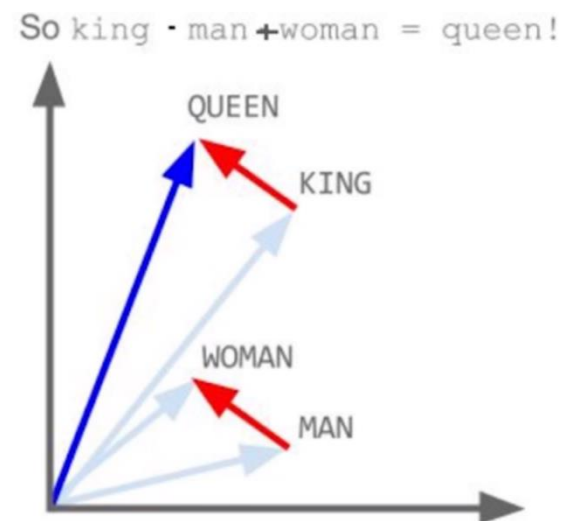
- Finding the correct dataset
- Cleaning the dataset
- Training the model with a cleaned dataset
- Tuning parameters of the model
- Creating a website application that built-in machine learning model

Tools:

- Python 3.7
- Anaconda
- Jupyter Notebook
- FastText
- Anvil

How to improve in the future:

- The dataset can be expanded to improve the recommendations of the model.
- Model parameters can be improvised with the new dataset.
- The website can be transformed into a browser extension to have more accessibility.



The Potential to Commercialize:

The product in this project can be easily commercialize by creating a browser extension of the product and putting the extension to the browsers' app markets.

Spell Corrector

Enter your text below

cleverlyy congratulations

Predictions

[[['cleverly', 0.9817308783531189], ['cleverer', 0.9676827788352966], ['clever', 0.9606747627258301], ['cleverest', 0.9575251340866089], ['fruitful', 0.9548734426498413]], [['congratulations', 0.9948415756225586], ['condemnations', 0.9882876873016357], ['consultations', 0.9879348278045654], ['negotiations', 0.9860131144523621], ['improvisations', 0.9853214025497437]]]

CORRECT THE SPELLING