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;

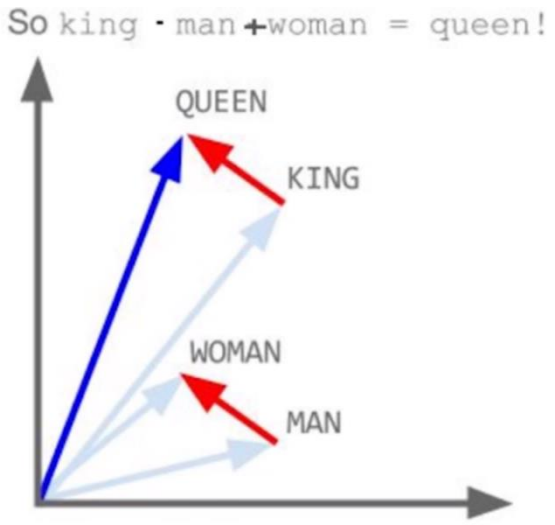
- Finding the correct dataset
- Cleaning the dataset
- Training the model with a cleaned dataset
- Tuning parameters of the model
- Creating a website application that built-in machine learning model

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.