

IR-Assignment # 1

Implementation:

- Indexed Given Documents of Trump Speeches using a Inverted Index.
- Designed a Query Engine using a Abstract Syntax Tree that can parse complex Boolean queries that have nested brackets.
- Pickled the inverted index for quick retrieval for query purposes.

Files:

Jupyter Notebook:

The Notebook Contains a Inverted Index Implementation with options to query Boolean, Phrasal, Proximity Queries.

- Check Notebook : IR-A1-K173654.ipynb

Desktop System:

A GUI Based Executable is present that provides a Desktop Interface to the Django based web server which holds the implementation of Inverted Index hosted on Heroku. It can evaluate and return results for queries.

- Check Zip File For Desktop GUI Code : IR-SYS-A1
- Check Folder For Desktop GUI Executable : IR-APP-A1
- Check Folder For Python Django Web Server : IR-SERVER-A1

Web System:

A Web Application is hosted at <https://ira1.netlify.com/#/> .

- Check Zip File for Web Interface Code : IR-WEB-A1