

- [UE20CS334 - Natural Language Processing - Project](#)
 - [Team 03](#)
 - [Literary device Identification - Personification](#)
 - [Team Members](#)
 - [Project Requirements:](#)
 - [Pre-Requisites](#)
 - [Main Notebooks:](#)

UE20CS334 - Natural Language Processing - Project

Team 03

Literary device Identification - Personification

Team Members

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Project Requirements:

Required Python Modules:

```
pandas
numpy
nltk
tensorflow
pickle
```

```
fasttext
sklearn
tqdm
regex
matplotlib
spacy
```

Pre-Requisites

- Run below commands in terminal

```
pip install -r requirements.txt
pip install -U pip setuptools wheel
pip install -U spacy
python -m spacy download en_core_web_sm
```

- Run below commands in python shell

```
import fasttext.util
fasttext.util.download_model('en', if_exists='ignore')
```

- Download following files, extract them and place the GloVe embedding files in folder **word_embeddings**
 - <https://nlp.stanford.edu/data/glove.6B.zip>
 - <https://nlp.stanford.edu/data/glove.42B.300d.zip>
 - <https://nlp.stanford.edu/data/glove.840B.300d.zip>
 - <https://nlp.stanford.edu/data/glove.twitter.27B.zip>

Main Notebooks:

There are three main Notebooks:

- main_personification_final.ipynb
- main_metaphor_final.ipynb
- main_oxymoron_final.ipynb

These files contain the implementation of detection of the respective literary device.

Open the files as Jupyter Notebook and hit `run all` at the top.

There is a `predict()` function which takes custom input and provides output from the trained models in all notebooks.