

4045_NLP_Readme

4045_NLP

4045 Natural Language Processing

Installing Dependencies

Manual Installation

1. [OpenJDK 8](#) - [GNU General Public License 2.0](#)
2. [Python 3.7.4](#) - [PSF Licence](#)

Manual Download

1. [Stanford CoreNLP Server](#) - [GNU General Public License 3.0](#)
 1. unzip zipped file
 2. move `stanford-corenlp-full-2018-10-05` to *Desktop*
2. [Stanford CoreNLP NER](#) - [GNU General Public License 3.0](#)
 1. unzip zipped file
 2. enter directory `stanford-ner-2018-16`
 3. copy `stanford-ner.jar` to *Desktop*
 4. enter directory `classifiers`
 5. copy `english.all.3class.distsim.crf.ser.gz` to *Desktop*

Required Python Libraries

1. [Matplotlib](#) - [PSF Licence](#)
2. [NumPy](#) - [NumPy License](#)
3. [nltk](#) - [Apache License Version 2.0](#)
4. [Spacy](#) - [MIT Licence](#)
5. [StanfordNLP](#) - [GNU General Public License 2.0](#)

Installation Steps

1. Once Python has been installed, input in *cmd* : `pip install -r requirements_win.txt`
 2. From Desktop, copy `stanford-corenlp-full-2018-10-05` into project folder *server*
 3. From Desktop, copy `stanford-ner.jar` and `english.all.3class.distsim.crf.ser.gz` into project folder *lib*
 4. Place `reviewSamples20.json` and `reviewSelected100.json` into project folder *data*
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Launch Project

1. Input in *cmd* : python [main.py](#)
2. There will a prompt to install `en_ewt` and `en_gum` models, enter `y` to install
3. Await till program ends
4. Outputs accessible in project folder *out*