Software specifications

Chapter number	Software required (With version)	Free/Proprietary	If proprietary, can code testing be performed using a trial version	If proprietary, then cost of the software	Download links to the software	**Hardware specifications (Minimum requirements Higher the configuration better)**	OS required
1	Python (I'm using python 2.7.X)	Free (Some python dependencies are Google Proprietary but they make them open	Yes	All softwares/ dependencies are open source	In-built python 2.7.X and 3.5.X available. Although you can see the installation step on this GitHub link: https://github.com/jalajthanaki/NLPython/blob/master/Appendix3/Installationdocs/App3_1_Install_python_pip_NLTK.md	64-bit CPU with >i3 processor, Min RAM 4 GB (You may need more	Linux I have used Ubuntu 14.04 LTS

		source)				RAM to run some of the DL and Word2 vec examples and if it is not possible to get this high end config then do let me know)	
2	Pycharm IDE community edition	Community version is free	Test by community	No Cost	Installation step on this GitHub link: https://github.com/jalajthanaki/NLPython/blob/master/Appendix3/Installationdocs/App3_2_Pycharm_installation_guide.md	64-bit CPU with >i3 processor, Min RAM 4 GB	Linux I have used Ubuntu 14.04 LTS
3	Python dependency					Memo	

	libraries
	1. nltk - already install
	2. Polyglot - installation steps
	$ sudo apt-get install python-numpy libicu-dev
	$ sudo pip install polyglot==16.7.4
	3. pycorenlp - installation step
	Section A install Stanford coreNlp
	3.1. download corenlp: https://stanfordnlp.github.io/CoreNLP/
	3.2 extract the zip anywhere
	3.3 $ cd stanford-corenlp-full-2016-10-31/
	3.4 $ java -mx4g -cp "*" edu.stanford.nlp.pipeline.StanfordCoreNLPServer
	Section B install pycornlp
	3.5: open new terminal
	3.6: $ sudo pip install pycorenlp
						ry:
						2GB RAM, Processor: I3 prcessor Operating system: linux	

4	Python dependency libraries 1. nltk - already install					Memory: 2GB	

	2. re - default python package 3. collections - default python package					RAM, Processor: I3 prcessor Operating system : linux	

5	1. NLTK is already there.
	2. Stanford NER tool should be install and unzip it https://nlp.stanford.edu/software/CRF-NER.shtml
	3. install spacy -link : https://spacy.io/docs/usage/
	$ sudo pip install -U spacy==1.8.2
	$ python -m spacy download en
	4. scikit-learn
	$ sudo pip install scikit-learn==0.18.1
	5. Pycornlp is already there
	6. polyglot is already there
	7. install textblob
	$ sudo pip install textblob==0.12.0
						i3 processor
						4 gb RAM
						LINUX OS	

6	Gensim glove					8 to 16 GB	

	Download Googlenews-vector model					ram	

7	Python dependency libraries
	1. nltk - already install
	2- beautiful soup installed already
	$ sudo apt-get install python-bs4
	$ sudo pip install beautifulsoup4==4.6.0
	3: request
	$ sudo pip install requests==2.18.1
	4. re package is part of default python libraries
	5. pycorenlp installation as per chapter 3
	6. Flask libraries
	$ sudo pip install Flask==0.12.2
	$ sudo pip Flask-Cors==3.0.2
	$ sudo Flask-PyMongo==0.5.1
						Memory: 4GB RAM, Processor: I3 prcessor Operating system: linux	

8	Majorly all libraries are installed.
	$ sudo pip install pandasa
	$ sudo apt-get install python-matplotlib
	$ sudo pip install scikit-learn
						i3 processor 4 to 8 GB RAM Linux OS	

9	Tensorflow					16 GB	

	Keras					ram I5 processor GPU is optional	

Detailed installation steps (software-wise)

You can see the GitHub Link: https://github.com/jalajthanaki/NLPython/tree/master/Appendix3/Installationdocs

I will update the dependency list again very soon but still there is document on GitHub which you can download and run the following command.

Step 1: Download file from GitHub Link: https://github.com/jalajthanaki/NLPython/blob/master/pip-requirements.txt

Step 2: Run the following command.

```
$ pip install -r /path/to/pip-requirements.txt
```