

# SOFTWARE/HARDWARE LIST:-

Chapter Name	Chapter number	Software required (With version)	Hardware specifications	OS required
Corpus and Wordnet	1	<ul style="list-style-type: none"> <li>Python NLTK 3.2.5</li> <li>NLTK_Data</li> </ul>	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Raw Text, Sourcing, Normalisation	2	<ul style="list-style-type: none"> <li>Python NLTK 3.2.5</li> <li>PyPdf2</li> <li>Python-DocX</li> <li>Feedparser</li> <li>Beautifulsoup4</li> </ul>	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Preprocessing	3	<ul style="list-style-type: none"> <li>Python NLTK 3.2.5</li> </ul>	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Regular Expressions	4	<ul style="list-style-type: none"> <li>Python re</li> </ul>	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux

POS Tagging and Grammars	5	<ul style="list-style-type: none"> <li>Python3.6.2</li> <li>nlk3.2.4</li> </ul>	64bit architecture, 2GHz CPU, 4GB RAM, at least 4GB of hard disk space available	Windows, Mac, or Linux
Chunking, Sentence Parse, Dependencies	6	<ul style="list-style-type: none"> <li>Python3.6.2</li> <li>nlk3.2.4</li> </ul>	64bit architecture, 2GHz CPU, 4GB RAM, at least 4GB of hard disk space available	Windows, Mac, or Linux
Information Extraction and Text Classification	7	<ul style="list-style-type: none"> <li>Python3.6.2</li> <li>nlk3.2.4</li> <li>feedparser5.2.1</li> </ul>	64bit architecture, 2GHz CPU, 4GB RAM, at least 4GB of hard disk space available	Windows, Mac, or Linux
Advanced NLP Recipes	8	<ul style="list-style-type: none"> <li>Python3.6.2</li> <li>nlk3.2.4</li> <li>feedparser5.2.1</li> <li>bs44.6.0</li> <li>gensim 3.0.1</li> </ul>	64bit architecture, 2GHz CPU, 4GB RAM, at least 4GB of hard disk space available	Windows, Mac, or Linux

Application of Deep Learning in NLP	9	<ul style="list-style-type: none"> <li>Python- version 3.6.1 from (Anaconda 3 – 4.3.1 windows-x86_64)</li> <li>Theano – version 0.9.0</li> <li>Keras – version 2.0.2</li> </ul>	64 bit architecture, 2 GHz CPU, 4GB RAM, if possible GPU – (GeForce GTX 1060, 6GB), at least 2GB of hard	Windows, Mac, or Linux
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		Note: Python is in-built in Anaconda package, hence the python version is derived from Anaconda package	disk space available	
Advanced Application of Deep Learning in NLP	10	<ul style="list-style-type: none"> <li>• Python- version 3.6.1 from (Anaconda 3 – 4.3.1 windows-x86_64)</li> <li>• Theano – version 0.9.0</li> <li>• Keras – version 2.0.2</li> </ul> <p>Note: Python is in-built in Anaconda package, hence the python version is derived from Anaconda package</p>	64 bit architecture, 2 GHz CPU, 4GB RAM, if possible GPU – (GeForce GTX 1060, 6GB), at least 2GB of hard disk space available	Windows, Mac, or Linux