

SOFTWARE/HARDWARE LIST:-

Chapter Name	Chapter number	Software required (With version)	Hardware specifications	OS required
Obtain and Clean Data	1	<ul style="list-style-type: none"> • Eclipse Mars or higher • Apache Commons IO 2.5 • Java 8 • Apache Tika 1.10 • Univocity 2.2.1 • JDOM 2.06 • JSON-Simple 1.1.1 • Jsoup 1.9.2 • Selenium Webdriver 2.53.1 • MySql Community Server 5.7.15 	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM	Windows
Index and Search Data	2	<ul style="list-style-type: none"> • Eclipse Mars or higher • Java 8 • Apache Lucene 6.4.1 	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM	Windows
Analyze Data Statistically	3	<ul style="list-style-type: none"> • Eclipse Mars or higher • Java 8 • Apache Commons Math 3.6.1 	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM	Windows
Learn from data part 1	4	<ul style="list-style-type: none"> • Eclipse Mars or higher • Java 8 • Weka 3.9.0 	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM	Windows
Learn from Data part 2	5	<ul style="list-style-type: none"> • Eclipse Mars or higher • Java 8 • Java-ML 0.1.7 • Stanford Classifier 3.6.0 • MOA-2016.04 • Mulan 1.5.0 	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM	Windows

Retrieve Information from Text Data	6	<ul style="list-style-type: none"> • Eclipse Mars or higher • Java 8 • OpenNLP 1.6.0 • Stanford CoreNLP 3.7.0 • Mallet 2.0.8 • Weka 3.9.0 	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM	Windows
Handle Big Data	7	<ul style="list-style-type: none"> • Eclipse Mars or higher • Java 8 • Apache Mahout 0.9 • Spark Mlib 1.3.1 	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM	Windows
Learn Deeply from Data	8	<ul style="list-style-type: none"> • Eclipse Mars or higher • Java 8 • Maven 3.3.9 • DL4J 4.0.0 	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM	Windows
Visualize Data	9	<ul style="list-style-type: none"> • Eclipse Mars or higher • Java 8 • GRAL 0.1.0 	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM	Windows