SOFTWARE/HARDWARE LIST:-

Chapter Name	Chapter number	Software required (With version)	**Hardware specifications**	OS required
Getting Started with Data Science	1	None as the code examples are not intended to be executed	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at least 1GB of hard disk space available	Windows, Mac or Linux
Data Acquisition	2	Bliki 3.0.19 https://mvnrepository.com/artifact/info.bliki.wiki/bliki-core/3.0.19 Crawler4j 3.1 https://mvnrepository.com/artifact/edu.uci.ics/crawler4j/3.1 MySQL Connector 6.0.2 https://dev.mysql.com/downloads/connector/j/6.0.html jsoup HTML parser 1.9.1 https://jsoup.org/ Flickr4Java https://github.com/boncey/Flickr4Java HBC Twitter https://github.com/twitter/hbc google-oauth-client-jetty 1.20.0 https://mvnrepository.com/artifact/com.google.oauth-client/google-oauth-client-jetty/1.20.0 google-api-services-youtube v3-rev171-1.22.0 https://mvnrepository.com/artifact/com.google.apis/google-api-services-youtube/v3-rev171-1.22.0 google-oauth-client 1.22.0 https://github.com/google/google-oauth-java-client google-http-client-jackson2 1.22.0 https://mvnrepository.com/artifact/com.google.http-client/google-http-client-jackson2	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at least 1GB of hard disk space available	Windows, Mac or Linux
Data Cleaning	3	com.fasterxml.jackson.core 2.7.4 https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-core/2.7.4 OpenCV http://opencv.org/downloads.html Apache pdfbox	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at least 1GB of hard disk space	Windows, Mac or Linux

		https://pdfbox.apache.org/download.cgi Apache poi http://poi.apache.org/download.html LingPipe http://alias-i.com/lingpipe/web/download.html	available	
Data Visualization	4	opencsv 3.7 https://mvnrepository.com/artifact/com.opencsv/opencsv/3.7 Apache commons-math3 3.6.1 http://commons.apache.org/proper/commons-math/download_math.cgi	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at least 1GB of hard disk space available	Windows, Mac or Linux
Statistical data Analysis Techniques	5	Apache commons-math3 3.6.1 http://commons.apache.org/proper/commons-math/download_math.cgi guava 20.0-hal https://mvnrepository.com/artifact/com.google.guava/guava/20.0-hal opencsv 3.7 https://mvnrepository.com/artifact/com.opencsv/opencsv/3.7	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at least 1GB of hard disk space available	Windows, Mac or Linux
Machine Learning	6	weka-dev 3.7.5 https://mvnrepository.com/artifact/nz.ac.waikato.cms.weka/weka-dev/3.7.5 guava 20.0-hal https://mvnrepository.com/artifact/com.google.guava/guava/20.0-hal JBayesTest https://github.com/vangj/jbayes opencsv 3.7 https://mvnrepository.com/artifact/com.opencsv/opencsv/3.7 Apache Commons Math3 3.6.1 http://commons.apache.org/proper/commons-math/download_math.cgi weka-dev 3.7.5 https://mvnrepository.com/artifact/nz.ac.waikato.cms.weka/weka-dev/3.7.5	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at least 1GB of hard disk space available	Windows, Mac or Linux
Neural Networks	7	weka-dev 3.7.5 https://mvnrepository.com/artifact/nz.ac.waikato.cms.weka/weka-dev/3.7.5	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at least 1GB of hard disk space available	Windows, Mac or Linux
Deep Learning	8	DL4J https://deeplearning4j.org/gettingstarted	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at	Windows, Mac or Linux

			least 1GB of hard disk space available	
Text Analysis	9	DL4J https://deeplearning4j.org/gettingstarted org.datavec https://mvnrepository.com/artifact/org.datavec Apache Commons http://commons.apache.org/downloads/ LingPipe http://alias-i.com/lingpipe/web/download.html OpenNLP http://opennlp.apache.org/download.html	Either 32 or 64 bit architecture, 2+ GHz CPU, 8GB RAM, at least 1GB of hard disk space available	Windows, Mac or Linux
Visual and Audio Analysis	10	CMU Sphinx http://cmusphinx.sourceforge.net/wiki/download OpenCV http://opencv.org/downloads.html Tess4j https://sourceforge.net/projects/tess4j/ FreeTTS https://sourceforge.net/projects/freetts/	Either 32 or 64 bit architecture, 2+ GHz CPU, 8GB RAM, at least 1GB of hard disk space available	Windows, Mac or Linux
Parallel Techniques for Data Analysis	11	Aparapi https://github.com/aparapi/aparapi Apache Hadoop http://hadoop.apache.org/releases.html Apache Commons Math3 3.6.1 http://commons.apache.org/proper/commons-math/download_math.cgi Jblas http://jblas.org/download.html ND4J http://nd4j.org/downloads.html	Either 32 or 64 bit architecture, 2+ GHz CPU, 8GB RAM, at least 1GB of hard disk space available	Windows, Mac or Linux
Bringing It All Together	12	LingPipe 4.1.0 http://alias-i.com/lingpipe/web/download.html jackson-core 2.7.4 https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-core/2.7.4 jackson-databind 2.7.4 https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-databind/2.7.4 opennlp-tools 1.6.0 https://opennlp.apache.org/maven-dependency.html hbc-core 2.2.0 https://github.com/twitter/hbc		Windows, Mac or Linux

		DL4J https://deeplearning4j.org/gettingstarted Twitter4j https://mvnrepository.com/artifact/org.twitter4j/twitter4j-core/4.0.3 jfreechart 1.0.19 https://mvnrepository.com/artifact/org.jfree/jfreechart/1.0.19 ND4J http://nd4j.org/downloads.html Google Common https://github.com/google/guava		