

SOFTWARE/HARDWARE LIST:-

Chapter Title	Chapter No.	Software required (with version)	Hardware specifications	OS required
Analyzing Insurance Severity Claim	1	IDE: Eclipse, IntelliJ Java: 1.7+, Scala: 2.11.8+ Build: Maven/SBT latest Spark: 2.0.0+ Hadoop: 2.7.x+	Either 32 or 64 bit architecture, 2+ GHz CPU, 8GB RAM, at least 100GB of hard disk space available	Windows (7, 8, 10), Mac or Linux (any distro but Ubuntu preferable)
Analyzing Outgoing Customers through Churn Prediction	2	IDE: Eclipse, IntelliJ Java: 1.7+, Scala: 2.11.8+ Build: Maven/SBT latest Spark: 2.0.0+ Hadoop: 2.7.x+	Either 32 or 64 bit architecture, 2+ GHz CPU, 8GB RAM, at least 100GB of hard disk space available	Windows (7, 8, 10), Mac or Linux (any distro but Ubuntu preferable)
High Frequency Bitcoin Price Prediction from Historical Data	3	IDE: Eclipse, IntelliJ Java: 1.7+, Scala: 2.11.8+ Build: SBT latest Spark: 2.0.0+ Hadoop: 2.7.x+ Web framework: Scala Play2	Either 32 or 64 bit architecture, 2+ GHz CPU, 16GB RAM, at least 100GB of hard disk space available	Windows (7, 8, 10), Mac or Linux (any distro but Ubuntu preferable)
Population Scale Clustering and Ethnicity Analysis	4	IDE: Eclipse, IntelliJ Java: 1.7+, Scala: 2.11.8+ Build: Maven/SBT latest Spark: 1.3.0+ Hadoop: 2.7.x+	Either 32 or 64 bit architecture, 2+ GHz CPU, 32GB RAM, at least 100GB of hard disk space available	Windows (7, 8, 10), Mac or Linux (any distro but Ubuntu preferable)
Topic Modelling in NLP: A Better Insight to Large-Scale Texts	5	IDE: Eclipse, IntelliJ Java: 1.7+, Scala: 2.11.8+ Build: Maven/SBT latest Spark: 2.0.0+ Hadoop: 2.7.x+	Either 32 or 64 bit architecture, 2+ GHz CPU, 8GB RAM, at least 100GB of hard disk space available	Windows (7, 8, 10), Mac or Linux (any distro but Ubuntu preferable)

Model-based Movie Recommendation Engine	6	IDE: Eclipse, IntelliJ Java: 1.7+, Scala: 2.11.8+ Build: Maven/SBT latest Spark: 2.0.0+ Hadoop: 2.7.x+	Either 32 or 64 bit architecture, 2+ GHz CPU, 8GB RAM, at least 100GB of hard disk space available	Windows (7, 8, 10), Mac or Linux (any distro but Ubuntu preferable)
Deep Reinforcement Learning using Markov Decision Process (MDP)	7		Either 32 or 64 bit architecture, 2+ GHz CPU, 8GB RAM, at least 100GB of hard disk space available	Windows (7, 8, 10), Mac or Linux (any distro but Ubuntu preferable)
Clients Subscription Assessment for Bank Telemarketing	8	IDE: Eclipse, IntelliJ Java: 1.7+, Scala: 2.11.8+ Build: Maven/SBT latest Spark: 2.0.0+ Hadoop: 2.7.x+	Either 32 or 64 bit architecture, 2+ GHz CPU, 8GB RAM, at least 100GB of hard disk space available	Windows (7, 8, 10), Mac or Linux (any distro but Ubuntu preferable)
Fraud Analytics using Autoencoders and Anomaly Detection	9	IDE: Eclipse, IntelliJ Java: 1.7+, Scala: 2.11.8+ Build: Maven/SBT latest Spark: 2.0.0+ Hadoop: 2.7.x+	Either 32 or 64 bit architecture, 2+ GHz CPU, 8GB RAM, at least 100GB of hard disk space available	Windows (7, 8, 10), Mac or Linux (any distro but Ubuntu preferable)
Human Activity Recognition using RNN	10	IDE: Eclipse, IntelliJ Java: 1.7+, Scala: 2.11.8+ Build: Maven/SBT latest Spark: 2.0.0+ Hadoop: 2.7.x+ MXNet: 0.12.0 OpenBLAS, OpenCV	Either 32 or 64 bit architecture, 2+ GHz CPU, 32GB RAM, at least 100GB of hard disk space available	Windows (7, 8, 10), Mac or Linux (any distro but Ubuntu preferable)
Image Classification using CNN	11	IDE: Eclipse, IntelliJ Java: 1.7+, Scala: 2.11.8+ Build: Maven/SBT latest Spark: 2.0.0+ Hadoop: 2.7.x+ DeepLearning4j: Latest	Either 32 or 64 bit architecture, 2+ GHz CPU, 32GB RAM, at least 100GB of hard disk space available	Windows (7, 8, 10), Mac or Linux (any distro but Ubuntu preferable)

