DATA SCIENTIST COURSE (Machine Learning with R Programming Language)

(Best Content)

Part 1: (Machine Learning Part-1, Fundamentals: 13 Hours)

- Hour 1: Introduction to Data Science
- Hour 2: Analytical Terminology, Analytical Methodology
- Hour 3: Introduction to R, R-studio interface
- Hour 4: Data Collection, Creating Datasets
- Hour 5: Reading Data From External Files (.Txt, .Xls, .Csv) – Tasks
- Hour 6: Data Exploration: apply functions
- Hour 7: Data Exploration: Additional functions & Loops
- Hour 8: Exercise
- Hour 9: Data Exploration Hypothesis, Types of Errors
- Hour 10: Data Exploration: Statistical Terminology
- Hour 11: Statistics: Understanding Probability
- Hour 12: Statistics: Basic stat functions
- Hour 13: Exercise

Part 2:(Machine Learning, Part-2, 8 Hours)
- Hour 14: Data Mining: Introduction
- Hour 15: Introduction to Regression
- Hour 16: Regression Case Study
- Hour 17: Dimensionality Reduction Techniques: Factor Analysis, PCA
- Hour 18: Clustering: Introduction
- Hour 19: Clustering case study --- Task
- Hour 20: Association Rules – Introduction
- Hour 21: Association Rules -- Case study: Task

Part 3(Machine Learning, Part-3, 13 hours)
- Hour 22: Advanced Regression
- Hour 23: Advanced Regression – Task
- Hour 24: Introduction to Logistic Regression
- Hour 25: Logistic Regression -Case study, --- Task
- Hour 26: Introduction to Decision Trees
- Hour 27: Decision tree, Case study – Task
- Hour 28: Introduction to SVM, Case study

- Hour 29: Introduction to Naivebayes, Case study
- Hour 30: Introduction to Neural nets,
- Hour 31: Neural Nets - Case study
- Hour 32: Introduction to KNN, Case study – Task
- Hour 33: Introduction to Bagging and Boosting
- Hour 34: Ensemble methods Case study

Part 4(Machine Learning, Part-4, 6 hours):

- Hour 35: Introduction to Time series
- Hour 36: Arima -- Case study --- Task
- Hour 37: Introduction to Text Analytics
- Hour 38: Word cloud in R/ -- Case study
- Hour 39: Final Project
- Hour 40: Final Project