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INTRODUCTION TO DATA SCIENCE PRACTITIONER:

1. Who is Data Science Practitioner?
2. Current Practices : Roles, Skill Sets, Positions
3. Overview of Data Science Landscape

2

Visual Analytics with Tableau - Exploratory Analysis and Visualization:

1. Visual Analytics with Tableau:

- Introduction to visual analytics
- Principles of Visual analytics
- Data Intrep
- Pivot Tables
- Split Tables
- Time Series Chart

2. Various Graphical Representations:

- Bar Plot
- Scatter Plot



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- ✓ Hands on Case Study in Tableau
- ✓ 15 Days Support in Self Practice
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- Histograms
- Boxplot
- Word Cloud
- Bubble Chart
- Side by Side chart
- Dual Combined Chart

3. Creating Fields::

- Quick table calculation
- Ad-Hoc
- Calculated fields
- Lookup
- If-Else
- Case
- ZN
- Parameter

4. Symbol Maps :

- Animated Maps
- Filled Maps
- Actions between Maps
- Sets, Dashboards and Storytelling



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Statistical Analysis:

1. Business Statistics:

- Various Data Types a)discrete, b)continuous, c)Nominal, d) Ordinal, e) Interval Scale, f) Ratio
- Central Tendency
- Measures of Dispersion
- Random Variable

2. Analysis:

- Probability Distribution
- Normal Distribution
- Skewness
- Kurtosis
- Random Sample

3. Confidence Interval:

- Confidence Interval
- Sampling Frame
- Z-Calculations
- Central Limit Theorem
- Chi-Square Test



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4. Analysis on X and Y data:

- One-Way Anova, 2 Sample t-test, Case Study on One-Way Anova and 2 Sample T Test

5. Analysis on X and Y data:

- Proportion Test, Pareto Chart , Case Study on 2 Proportion Test and Pareto chart

6. Hypothesis:

- Hypothesis Testing
- Converting Problem to Statistical Problem
- Null Hypothesis
- Alternate Hypothesis
- Case Study on Hypothesis Testing

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Data Science with R Language:

1. Introduction to R :

- Installing R
- Installing R Studio
- Creating Objects in R
- Creating Arrays
- Creating Data frames



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- Use of Structure
- Dimensions
- Loading CSV files, Foreign packages into R

2. Data Manipulation with R:

- Loading vectors in R
- Combining to vectors in R
- Cleaning Data with R, Swapping Data, Sorting Data, Converting unstructured to structured data, usage of sub, gsub, regexr, gregexpr, apply, lapply, sapply

3. Data Visualization with R:

- Usage of Plot, lines, boxplot, stars, barplot, pie, hist, rug, sunflowerplot, various color of histograms, tabplot, ggplot2, maptools and extracting data from URLs



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Text Mining: 1. Introduction to Text Mining concepts

2. Sentiment Analysis with R:

1. Text Mining :

- Positive and Negative Word Cloud
- Case study on Sentiment analysis

2. Advanced Regression :

- Theory Behind Advanced Regression
- Advanced Regression with R
- Working on Case Study

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Machine Learning Module -1:

1. Machine Learning Introduction :

- Supervised and Unsupervised Learning
 - a) Linear Regression Theory b) Linear Regression Programming with R
 - c) Working on Case Study Data



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2. Multiple Linear Regression:

- Theory behind multiple linear regression
- Multiple Linear Regression with R
- Working on Case Study

3. Decision Tree:

- Theory Behind Decision Tree
- Decision Tree with R
- Working on Case Study

4. Naïve Bayes :

- Theory behind Naïve Bayes classifiers
- Naïve Bayes Classifiers with R
- Working on Case Study

5. Support Vector Machines :

- Theory behind Support Vector Machines
- Support vector machines with R
- Improving the performance with Kernels
- Working on Case Study

6. Association Rule :

- Theory behind Association Rule
- Working on Case Studies



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Machine Learning - Module 2

1. Neural Net:

- Artificial Neural Network
- Connection Weights in Neural Network
- Generating Neural Network with R
- Improving Neural Network Accuracy with Hidden Layers
- Working on Case Study

2. Random Forest :

- Working on Case Study
- Theory behind Random Forest
- Random Forest with R
- Improving performance of Random Forest
- Working on Case Study

3. Recommendation Engine:

- Theory behind Recommendation Engines
- Working on Case Study with R



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4. Dimension Reduction:

- Theory behind Recommendation Engine
- Working on Case Studies

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Web Analytics :

1. Theory behind Web Analytics
2. Working on Case Study

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Project :

1. Live Data Science Project



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