

**4-Course  
Series**

- Business Intelligence using Power BI and Tableau
- Data Analytics using R
- Microsoft 365 Excel
- Data Analytics using Python

**Online Self-Paced Course**

# **PYTHON FOR DATA ANALYTICS & REPORTING *THEMED TRACK***

**(with R, Tableau & Power BI)**



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# Business Intelligence (Power BI & Tableau)

## Module 1: Introduction

## Module 2: Power BI

## Module 3: Tableau

## Module 4: Software Support

- a. Support Material
- b. Final Assessment
- c. Power BI and Tableau Instructions
- d. Software Download Instructions

# Data Analytics using R

## Module 1: Introduction and Programming

1. Introduction to Data Analytics
2. Introduction to R
  - a. R programming
  - b. R programming - Case Study
  - c. Customer Churn

## Module 2: Statistics and Visualization

1. Data Visualization: Various graphs, charts
2. Data Visualization: Advance
3. Descriptive Statistics: Basic statistical techniques including data properties: Hypothesis testing DPLYR package.
4. Linear Regression Model
5. Multinomial Linear Regression - Case Study
6. Logistic Regression
7. Multinomial Logistic Regression
  - a. Multinomial Logistic Regression - Case Study

## Module 3: Advance Methods

1. Introduction to Artificial intelligence, ML and Deep learning
2. Neural Networks
3. Support Vector Machines (SVM)
4. Support Vector Machines (SVM) - Case Study
5. Decision Tree
6. Random Forest
7. K-nearest Neighbors
8. K-nearest Neighbors - Case Study
9. Clustering (K Means)
10. Principle Component Analysis
11. Principle Component Analysis - Case Study

# Microsoft 365 Excel

## Module 1: MS Excel Essentials: Functions and Tools

1. Data management and formatting
2. Referencing in Excel
3. Data split
4. Data validation
5. Adding hyperlinks
6. Logical functions
7. Lookup functions
8. Conditional functions
9. SUMPRODUCT function
10. Large and small values
11. Data concatenation
12. Working with dates and time
13. Financial functions
14. Text-oriented functions
15. Aggregate function
16. OFFSET function
17. INDIRECT function
18. Formula auditing
19. Statistical functions
20. Using Range Names
21. Excel Table
22. What If Analysis
23. Protecting Worksheet and Workbook
24. Dashboards and Data Summarization

## Module 2: Microsoft 365 Excel

1. MS-365 Excel overview
2. Create dynamic sequence
3. Unique, sort and filter
4. New age lookup
5. Text-oriented functions
6. New data types
7. Create customized functions in Excel
8. Other functions
9. Assessment and study material

# Data Analytics using Python

## Module 1: Basic Python

1. Getting started with Python
2. Data and information management with Python Containers in Python
3. Conditional statements and control structures
4. Functions in programming
5. Functional programming in Python
6. Exceptions handling in Python
7. Python advanced topics
8. Python projects to check the knowledge
9. File handling and other OS interactions

## Module 2: Python for Data Science

1. Lecture on introduction to Vectors, Matrices, and NumPy
2. Lecture on introduction to Data Frame manipulation series
3. Introduction to Data Frame manipulation
4. Data Frame manipulation
5. Date and time data frame manipulation
6. Lecture on Pandas internal commands
7. Lecture on visualization in Python
8. Lecture on visualization in Python part 2
9. Lecture on understanding Seaborn from scratch
10. Lecture on exploratory data analytics case study Chipotle

## Module 3: Stats for Python

1. Basic statistics
2. Basic statistics
3. Probability theory



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