TechnoMaster

Data Analytics

Duration: 70 Hrs (Changeable) | Fees: Individual / Batch

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- Web Design
- Angular JS
- React JS
- CCNA, MCSA
- AWS, GCP, Azure
- ODOO, Fortinet
- Ethical Hacking

Syllabus Contd..

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Syllabus

- Learn Python Program from Scratch
- Basic programming concepts
- Object -oriented programming
- Data types, variables, strings, loops, and functions
- Software engineering using Python.
- Statistical and Mathematical Essential for Data Science
- Collection, classification, and
- analysis of data
- A foundational part of Data Science
- Explain measures of central tendency and dispersion
- comprehend
- skewness, correlation, regression, distribution
- Data Science with Python
- Jupyter Notebook and PyCharm based
- lab environmentMachine Learning
- Data visualization
- Web
- scrapingNatural language processing
- Database
- Machine Learning
- Mathematical and heuristic aspects
- Hands-on modeling to develop algorithms
- Advanced Machine Learning knowledge.

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Syllabus

- Data Analytics with R:
- Data wranglingdata exploration
- data visualization
- predictive analytics
- descriptive analytics techniques
- import and export data in R
- data structures in R
- various statistical
- concepts
- cluster analysis
- forecasting
- Visualization with Tableau
- Data Visualization
- combo charts
- working with filters
- parameters
- sets
- building interactive dashboards
- Visualization with Power BI
- Data
- filtering
- Data manipulations

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Syllabus

- understanding the patterns in data
- create customized dashboards with
- powerful developer tools
- Technologies Training:
- Python:
- Introduction to Python and Computer Programming
- Data Types
- Variables
- Basic Input -Output Operations
- Basic Operators
- Boolean Values
- Conditional Execution
- Loops
- Lists and List Processing
- Logical and Bitwise Operations
- Functions
- Tuples
- Dictionaries
- Sets
- Data Processing

Modules

- Packages

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Syllabus

- String and List Methods
- Exceptions
- File Handlings
- li> Regular expressions
- the Object -
- Oriented Approach: Classes, Methods, Objects
- Standard Objective Features; Exception
- HandlingWorking with Files
- R:
- R IntroductionData Inputting in RStrings
- VectorsLists
- Matrices
- Arrays Functions and Programming
- in R
- Data manipulation in RFactors
- DataFramePackages
- Data Shaping
- R-Data InterfaceWeb
- Data and Database
- Charts-Pie
- Bar Charts
- Boxplots, Histograms

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Syllabus

- LineGraphs
- Mean
- Median
- Mode
- Regression-Linear
- Multiple
- Logistic
- Poisson
- Distribution-Normal
- Binomial
- Analysis-Covariance
- Time Series, Survival
- Nonlinear Least Square
- Decision Tree
- Random Forestc
- MySQL
- MySQL â€“ Introduction
- Installation
- Create Database
- Drop Database
- Selecting Database
- Data Types

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Syllabus

- Create Tables
- Drop Tables
- Insert Query
- Select Query
- WHERE Clause
- Update Query
- DELETE Query
- LIKE Clause
- Sorting Results
- Using Joins
- Handling NULL Values
- ALTER Command
- Aggregate functions
- MySQL Clauses
- MySQL Conditions
- Matplotlib:
- Scatter plot
- Bar charts
- histogram
- Stack charts
- Legend title Style
- Figures and subplots

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Syllabus

- Plotting function in pandas
- Labelling and arranging figures
- Save plots.
- Seaborn:
- Style functions
- Color palettes
- Distribution plots
- Categorical plots
- Regression plotsAxis grid objects.
- NumPy
- Creating NumPy arrays
- Indexing and slicing in NumPy
- Downloading and parsing data
- Creating multidimensional arrays
- NumPy Data types
- Array attributes
- Indexing and Slicing
- Creating array views copies
- Manipulating array shapes I/O.
- Pandas:
- Using multilevel series
- Series and Data Frames

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- Grouping
- aggregating
- Merge Data Frames
- Generate summary tables
- Group data into logical pieces
- manipulate dates
- Creating metrics for analysis
- Data wrangling
- Merging and joining
- Data Mugging using Pandas
- Building a Predictive Mode.
- Scikit-learn:
- Scikit Learn Overview
- Plotting a graph
- Identifying features and labels
- Saving and
- opening a model
- Classification
- Train / test split
- What is KNN? What is SVM?
- Linear regression
- Logistic vs linear regression

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Syllabus

- KMeans
- Neural networks
- Overfitting and underfitting
- Backpropagation
- Cost function and gradient descent, CNNs
- Tableau
- Tableau Architecture
- File Types
- Data Types
- Tableau Operator
- String FunctionsDate
- Functions Logical Functions
- Aggregate FunctionsvJoins in Tableau
- Types of Tableau Data Source
- Data Extracts
- Filters
- Sorting
- Formatting
- Adding Worksheets and Renaming Worksheet In Tableau
- Tableau Save
- Reorder and Delete Worksheet
- Chartsdashboard.

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- Power BI
- Power BI Architecture
- ComponentsPower BI Desktop
- Connect to Data in Power BI Desktop
- Data Sources for Power BI
- DAX in Power BI
- Q & A in Power BI
- Filters in Power BI, Power BI Query
- Overview
- Creating and Using Measures in Power
- Calculated Columns
- Data Visualizations
- Charts
- AreaFunnel
- ComboDonut
- Waterfall
- Line
- Maps Bar
- KPI
- Power BI Dashboard