

TechnoMaster

Data Analytics

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

TRAINING BY INDUSTRY EXPERTS

Since 2007, Nestsoft TechnoMaster has been providing training and internships in IT technologies, both online and offline. We have given internships, training, and seminars to more than 25,000 students and achieved more success stories. **We offer 100% placement support through JobsNEAR.in**

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- ODOO, Fortinet
- Ethical Hacking



Syllabus Contd..

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Syllabus

- * Learn Python Program from Scratch

proficiency in Python programming is an increasingly important skill; this program will establish your object-oriented programming; basic programming concepts. By the end of this program, you will understand loops, and functions programming; basic programming concepts such as data types, variables, strings, and software engineering using Python.

- * Statistical and Mathematical Essential for Data Science

classification, and Statistics is the science of assigning a probability through the collection, to define statistical analysis of data. A foundational part of Data Science, this session will enable you and comprehend essential terms related to it, explain measures of central tendency and dispersion, to perform Exploratory data analysis, correlation, regression, distribution. Understanding the data is the key

- * Data analysis and justify your conclusion to the business or scientific problem.

- * Data Science with Python

PyCharm based Python environment and create your own Data Science projects learn the essential data visualization, programming and gain in-depth knowledge in data analytics, Machine Learning, Data Science modeling, and natural language processing. Python is a required skill for many

- * Database

stored electronically. A database is an organized collection of structured information, or data, typically system (DBMS). a computer system. A database is usually controlled by a database management develop analytics. Company data are store in databases and later on retrieved using python to

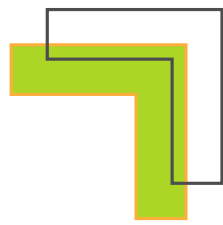
- * insights to business problems.

- * Machine Learning

that automates data will make you an expert in Machine Learning, a subclass of Artificial Intelligence

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tasks without explanation analysis to enable computers to learn and adapt through experience to do specific including supervised programming. You will master Machine Learning concepts and techniques, modeling to develop algorithms learning, mathematical and heuristic aspects, and hands-on

- * and prepare you for your role with advanced Machine Learning knowledge.

- * Data Analytics with R:
multiple problems. The Data Science with R enables you to take your data science skills to solve data exploration, statistical and related libraries. The course makes you skilled with data wrangling, will learn about R data visualization, predictive analytics, and descriptive analytics techniques. You various statistical from basics with installation to import and export data in R, data structures in R,
- * concepts, cluster analysis, and forecasting.

- * Visualization with Tableau
business problems. Data Science with Tableau helps to see and understand data solving various problems. Courseware analytics platform is transforming the way people use data to solve dashboards to bring more create visualizations, organize data, and design plots and develop charts, working with insights to the problem. Learn various concepts of Data Visualization, combo
- * filters, parameters, and sets, and building interactive dashboards.

- * Visualization with Power BI
perform various data. This Power BI deals with how to handle multiple data sources, extract them dashboards with filtering, manipulations, understanding the patterns in data and create customized professionals, data powerful developer tools It is suitable for business intelligence (BI) and reporting
- * analysts, and professionals working with data in any sector.
- * Technologies Training:

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* Python:

Input -Output * Introduction to Python and Computer Programming, Data Types, Variables, Basic and List Processing * Operations, Basic Operators, Boolean Values, Conditional Execution, Loops, Lists Processing, Modules * Logical and Bitwise Operations, Functions, Tuples, Dictionaries, Sets, and Data expressions, * Packages, String and List Methods, and Exceptions, File Handlings. Regular Features; Exception * Oriented Approach: Classes, Methods, Objects, and the Standard Objective * Handling, and Working with Files.

* R:

Functions and Programming * Introduction, Data Inputting in R, Strings, Vectors, Lists, Matrices, Arrays R-Data Interface, * Data manipulation in R, Factors, DataFrame, Packages, Data Shaping, Mean, Median and Mode * Data and Database, Charts-Pie, Bar Charts, Boxplots, Histograms, Line Graphs, Analysis-Covariance * Regression- Linear, Multiple, Logistic, Poisson, Distribution-Normal, Binomial, * Time Series, Survival, Nonlinear Least Square, Decision Tree, Random Forest

* MySQL

Database, Data * MySQL " Introduction, Installation, Create Database, Drop Database, Selecting Update Query * Types, Create Tables, Drop Tables, Insert Query, Select Query, WHERE Clause, Values, ALTER * DELETE Query, LIKE Clause, Sorting Results, Using Joins, Handling NULL * Command, Aggregate functions, MySQL Clauses, MySQL Conditions.

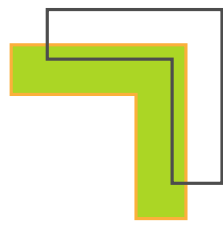
* Matplotlib:

subplots, * Scatter plot, Bar charts, histogram, Stack charts, Legend title Style, Figures and * Plotting function in pandas, Labelling and arranging figures, Save plots.

* Seaborn:

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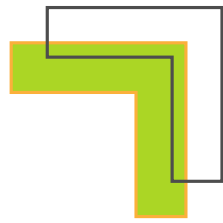





- plots, Axis * Style functions, Color palettes, Distribution plots, Categorical plots, Regression
- * grid objects.
- * NumPy
- data * Creating NumPy arrays, Indexing and slicing in NumPy, Downloading and parsing
- and Slicing, * Creating multidimensional arrays, NumPy Data types, Array attributes, Indexing
- * array views copies, Manipulating array shapes I/O.
- * Pandas:
- Data Frames, * Using multilevel series, Series and Data Frames, Grouping, aggregating, Merge
- Creating metrics for analysis, * Generating summary tables, Group data into logical pieces, manipulate dates,
- Predictive Models. * Data wrangling, Merging and joining, Data Mugging using Pandas, Building a
- * Scikit-learn:
- and * Scikit Learn Overview, Plotting a graph, Identifying features and labels, Saving
- Linear regression * Opening a model, Classification, Train / test split, What is KNN? What is SVM?,
- underfitting, * Logistic vs linear regression, KMeans, Neural networks, Overfitting and
- * Backpropagation, Cost function and gradient descent, CNNs
- * Tableau
- Date * Tableau Architecture, File Types, Data Types, Tableau Operator, String Functions,
- Tableau Data Sources * Functions Logical Functions, Aggregate Functions, Joins in Tableau, Types of
- Worksheet In Tableau, * Data, Extracts, Filters, Sorting, Formatting, Adding Worksheets and Renaming
- * Tableau Save, Reorder and Delete Worksheet, Charts, dashboard.
- * Power BI
- BI Desktop, * Power BI Architecture, Components, Power BI Desktop, Connect to Data in Power



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BI, Power BI  Data Sources for Power BI, DAX in Power BI, Q & A in Power BI, Filters in Power Visualizations  Overview, Creating and Using Measures in Power, Calculated Columns, Data Dashboard .  Area, Funnel, Combo, Donut, Waterfall, Line, Maps, Bar, KPI, Power BI