ADVANCED CERTIFICATION IN

DATA ANALYTICS

Python
Data Analysis
(Power BI or Tableau)

Data Analytics Projects Included:
Google Play Store Data Analysis
eCommerce Data Analysis
Banking Data Analysis

Business Analytics Projects Included:
Analysis of Financial Performance
Analysis of Marketing Campaign Insights
Detecting Anomalies in Credit Card Transaction

Duration: 80 Hours
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Modules covered under **Python Training Program**

Module 1 : Python - An Introduction

- Python: An Overview
- History of Python
- Version of Python
  Feature of Python
  - ✓ Simple
  - ✓ Open Source
  - ✓ High Level Programming Language
  - ✓ Portable
  - ✓ Object Oriented & Procedure Oriented
  - ✓ Interpreted
  - ✓ Easy to Maintain
- Comparisons of Python with Other Language
  - ✓ Java
  - ✓ C++
  - ✓ Java Script
  - ✓ Perl
- Execution of Programs
- Python Comment

Module 2 : Python Variables & Data Types

- What is variables
- Assign Variables
- Data Types:
  - ✓ Numeric Data Types
  - ✓ Boolean Data Types
  - ✓ Compound Data Types
  - ✓ Dictionaries
  - ✓ Sets
  - ✓ Array

Modules covered under **Python Training Program**

Module 3 :   Operators
- Types of Operators
  - ✔ Arithmetic & Relational Operators
  - ✔ Assignment Operators
  - ✔ Logical / Boolean Operators
  - ✔ Identity Operators
  - ✔ Membership Operators
  - ✔ Bitwise Operators
- Operators Precedence & Associativity
  - ✔ Precedence of Operators
  - ✔ Associativity of Operators

Module 4 :   Python Conditional Statements
- The If Statements
- The if-else Statements
- The Elif Statements
- The Nested If – Else Statements

Module 5 :   Python Looping Concept
- Python for Loop
- Python While Loop

Module 6 :   Python Control Statements
- The Break Statements
- The Continue Statements
- The Pass Statements

Module 7 :   Python Number
- Mathematical Function
- Random Function
- Trigonometric Function

Modules covered under **Python Training Program**

Module 8 : Python Strings

- Accessing Strings
- Basic Operations
- String slices
- String Built-In Function

Module 9 : Python List

- Introduction
- Accessing list
- Operations
- Working with lists
- List Slices
- Aliasing
- Cloning
- List Comprehension
- Deleting List
- Built-in Function

Module 10 : Python Tuple

- Introduction
- Creating Tuple
- Accessing Tuple
- Modifying Tuple
- Deleting Tuple
- Built-in Function

Module 11 : Python Dictionary

- Introduction
- Creating Dictionary
- Accessing Dictionary
- Deleting Dictionary
- Built-In Function

Modules covered under **Python Training Program**

Module 12 : Python Sets
- Introduction
- Declaring an Sets
- Operation on Sets
- Built-In Function

Module 13 : Python Date & Time
- The Time Module
- The Calendar Module

Module 14 : Python Function
- Defining a function
- Calling a function
- Types of functions
- Function Arguments
- Anonymous functions
- Global and local variables

Module 15 : Module
- Introduction
- The Import Statement
- The From...Import Statement
- The From...Import* Statement

Module 16 : File Handling (Input / Output)
- Introduction
- Opening & closing Files
- Reading & writing Files
- Rename & Remove Files
- The Directories

Modules covered under **Python Training Program**

Module 17 : Exception Handling
- Error in Python Program
  - ✓ Syntax error
  - ✓ Exception
- Types of Exception
- Handling Exception in Python
- Raising Exception
- User Defined Exception

Module 18 : OOPs Concepts
- Class and object
- Attributes
- Inheritance
- Overloading
- Overriding
- Interface & Abstraction

Module 19 : Analytics Tool (Any One)
- Tableau
- Microsoft Power BI

Module 20 : Projects And Interviews
- Covering all the concepts
- Project Work
- Resume Preparation
- Interview Question Preparation

Data Analysis

Data Analysis Training + Certification

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Modules covered under Data Analysis Training Program

Module 1 : Introduction to Anaconda Distribution

- What is Anaconda Distribution?
- How it is different from Python Distribution?
- How to install Anaconda?
- Anaconda Repository
- Anaconda Navigator
- Integrating Anaconda with Pycharm

Module 2 : Using Git and GitHub

- Setting up Your GitHub Account
- Configuring Your First Git Repository
- Making Your First Git Commit
- Pushing Your First Commit to GitHub
- Git and GitHub Workflow Step-by-Step

Module 3 : Introduction to SQL and DataBases

- SQL/RDBMS database management
- SQL Queries
- CRUD Operations

Module 4 : Introduction to numpy and statistical Analysis

- What is numpy?
- Numpy performance test
- Introduction to numpy arrays and Matrices
- Indexing and Selection
- Introduction to numpy function
- Numpy Operations Array with Array, Array with Scalars, Universal Array
- Functions
- Dealing with Flat files using numpy
- Mathematical functions
- Statistical functions

Modules covered under **Data Analysis Training Program**

Module 5 :   Introduction to Pandas and Data Analysis
- Integrating Anaconda with Pycharm
- What is Pandas
- Creating Series
- Creating Data Frames
- Grouping, Sorting
- Group by Operations
- Merging, Joining and Concatenating DataFrame
- Pandas Operations
- Data Input and Output from a variety of data formats like csv, excel, db, json etc
- Missing Data (Imputation)
- Data analysis with data set
- Practical use cases using data analysis

Module 6 :   Statistics and Probability
- Type of Dataset: Numerical, Categorical and Ordinal
- Mean, Median and Mode
- Variance and Standard Deviation
- Probability Density Function(PDF) and Probability Mass Function (PMF)
- Percentiles and Moments
- Covariance and Correlation
- Conditional Probability
- Bayes' Theorem Module

Modules covered under **Data Analysis Training Program**

Module 7 :   Data Visualization using Matplotlib
- Plotting for exploratory data analysis (EDA)
- Line Graph on time Series
- Pie Chart, Bar and Horizontal Bar Graph
- Introduction to IRIS dataset
- 2D scatter plot
- Pair plots
- Histogram and Introduction to PDF (Probability Density Function)
- CDF (Cumulative Distribution Function)

Module 8 :   Data Visualization using Seaborn
- Introduction to Seaborn
- Preparation of scatter data
- Figures in Seaborn
- Scatter plots in Seaborn
- Preparation of line plot data
- Line plots in Seaborn
- More on visualization

Module 9 :   Project & Interview Preparation
- Project Work
- PD Classes
- Resume Preparation
- Interview Question Preparation

+ tableau

Tableau
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Modules covered under **Tableau Training Program**

Module 1 :   Tableau Intro
- Data Warehousing & Business Intelligence primer
- Data Analysis
- Data visualization
- How does Business Reporting Work
- Dashboards primer
- About Tableau
- Tableau reporting architecture
- Measures & Dimensions
- Continuous & Discrete data
- Values axis & Category axis

Module 2 :   Getting data in
- Flat files
- Database
- Webservices, Cloud
- Clipboard
- Extract
- Why Extracts
- Incremental Extracts
- Tableau Server Data Sources

Module 3 :   Saving & Publishing
- Packaged Workbooks
- Publishing to Server
- Tableau file types

Modules covered under **Tableau Training Program**

Module 4 : Data Visualization Building Blocks

- Worksheets & Dashboards
- Filters
- Creating Filters
- Customizing Filters
- Filter Actions
- Filter Selected Sheets
- Filtering Large Dimensions
- Row Shelf & Column Shelf
- Marks cards
- Color
- Size
- Label
- Detail
- Tooltip
- Path
- Sets
- Parameters
- Creating Parameters
- Using Parameters
- Groups
- Calculated Columns

Modules covered under **Tableau Training Program**

Module 5 :   Visualizations

- Line Charts
- Lines (continous) charts
- Lines (discrete) charts
- Dual lines
- Bar Charts
- Horizontal bar charts
- Stacked bar charts
- Side-by-Side bar charts
- Text tables
- Heat maps
- Highlight tables
- Symbol maps
- Filled Maps
- Pie Charts
- Treemaps
- Circle views
- Side-by-Side Circle views
- Area Charts
- Area Charts (Continous)
- Area Charts (Discrete)
- Combination charts
- Scatter Plots
- Histogram
- Box Plots
- Gantt charts
- Bullet Charts
- Packed bubble charts

Modules covered under **Tableau Training Program**

Module 6 : Others

- Building Dashboards
- Forecasting
- Reference Bands
- Reference Lines
- Sheet Sorter
- Show Missing Values
- Trend Lines
- Handling Null Values
- Legend Highlighting
- Highlight Actions
- Visually Grouping Data
- Table Calculations
- Hiding Columns
- Computing Totals
- Formatting
- Annotating
- Layout Containers
- Tiling & floating dashboards
- Actions
- Filter
- Highlight

Modules covered under **Tableau Training Program**

Module 7 :   Tableau Server
- Authoring
- Subscriptions
- Publishing
- Viewing dashboards in web pages
- PDF options
- Sharing Server views

Module 8: Projects And Interviews
- Covering all the concepts
- Project Work
- Resume Prepration
- Interview Question Prepration

Power BI

Microsoft Power BI
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Modules covered under **Power BI Training Program**

Module 1 : Quick Start Power BI Service
- Get Power BI Tools
- Introduction to Tools and Terminology
- Dashboard in Minutes
- Refreshing Power BI Service Data
- Interacting with your Dashboards
- Sharing Dashboards and Reports

Module 2 : Getting and Transforming Data with Power BI Desktop
- Introduction to Power BI Desktop
- Getting Data: Excel vs Power BI Desktop & Service
- Data Structure for Q&A
- Direct Query vs Import Data

Module 3 : Modeling with Power BI
- Introduction to Modeling
- Setup and Manage Relationships
- Cardinality and Cross Filtering
- Default Summarization & Sort by
- Creating Calculated Columns
- Creating Measures & Quick Measures

Modules covered under **Power BI Training Program**

Module 4 :   Power BI Desktop Visualisations
- Creating Visualisations
- Color Formatting
- Setting Sort Order
- Scatter & Bubble Charts & Play Axis
- Tooltips
- Slicers, Timeline Slicers & Sync Slicers
- Cross Filtering and Highlighting
- Visual, Page and Report Level Filters
- Drill Down/Up
- Hierarchies
- Reference/Constant Lines
- Tables, Matrices & Conditional Formatting
- KPI's, Cards & Gauges
- Map Visualizations
- Custom Visuals
- Managing and Arranging
- Drill through
- Custom Report Themes
- Grouping and Binning
- Selection Pane, Bookmarks & Buttons

Module 5 :   Power BI Service Visualisation Tools
- Introduction
- Standalone Tiles
- Data Driven Alerts
- Quick and Related Insights
- Custom Q&A questions

Modules covered under **Power BI Training Program**

Module 6 : Publishing and Sharing

- Introduction
- Sharing Options Overview
- Publish from Power BI Desktop
- Publish to Web
- Share Dashboard with Power BI Service
- Workspaces and Apps (Power BI Pro)
- Content Packs (Power BI Pro)
- Print or Save as PDF
- Row Level Security (Power BI Pro)
- Export Data from a Visualization
- Publishing for Mobile Apps
- Export to PowerPoint
- Sharing Options Summary

Module 7 : Refreshing Datasets

- Understanding Data Refresh
- Personal Gateway (Power BI Pro and 64-bit Windows)
- Replacing a Dataset
- Troubleshooting Refreshing

Modules covered under **Power BI Training Program**
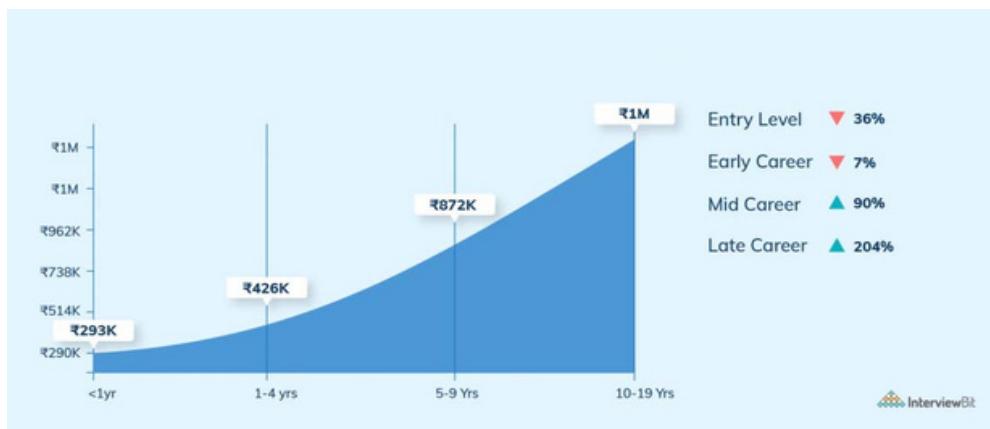
Module 8 : Power BI and Excel Together
- Options for Publishing from Excel
- Pin Excel Elements to Power BI
- Connect to Data using Power BI Publisher/Analyze in Excel
- Excel 2016 Publish: Upload and Export to Power BI
- Sharing Published Excel Dashboards

Module 9 : Projects And Interviews
- Covering all the concepts
- Project Work
- Resume Prepration
- Interview Question Prepration

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I am grateful to TechVidya - both the faculty and the Training & Placement Department. They've made efforts ensuring maximum number of placed students. The Institute started grooming us for placements in the first few months including courses such as Professional Excellence Program and Professional Skills Enhancement. I suggest to join TechVidya which comes under top 10 IT & Software training institute.

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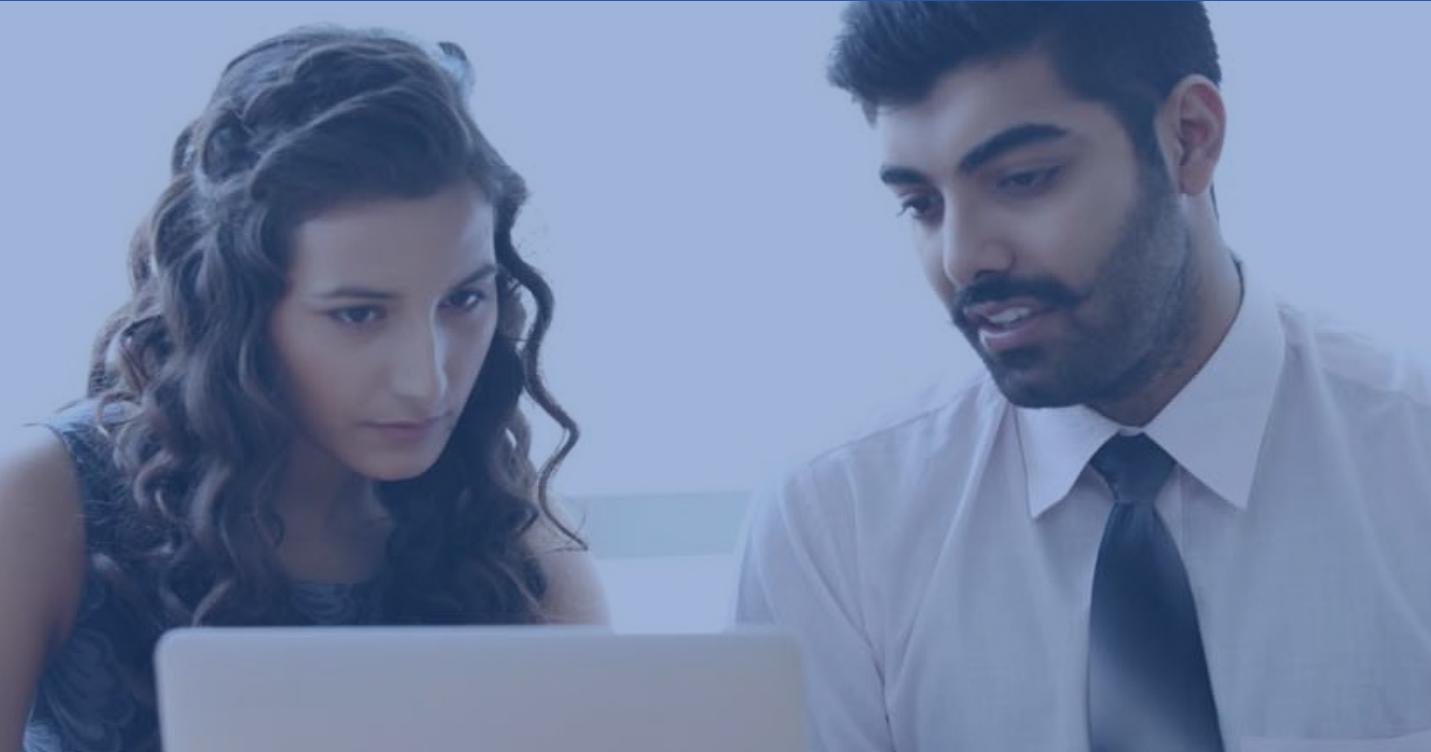
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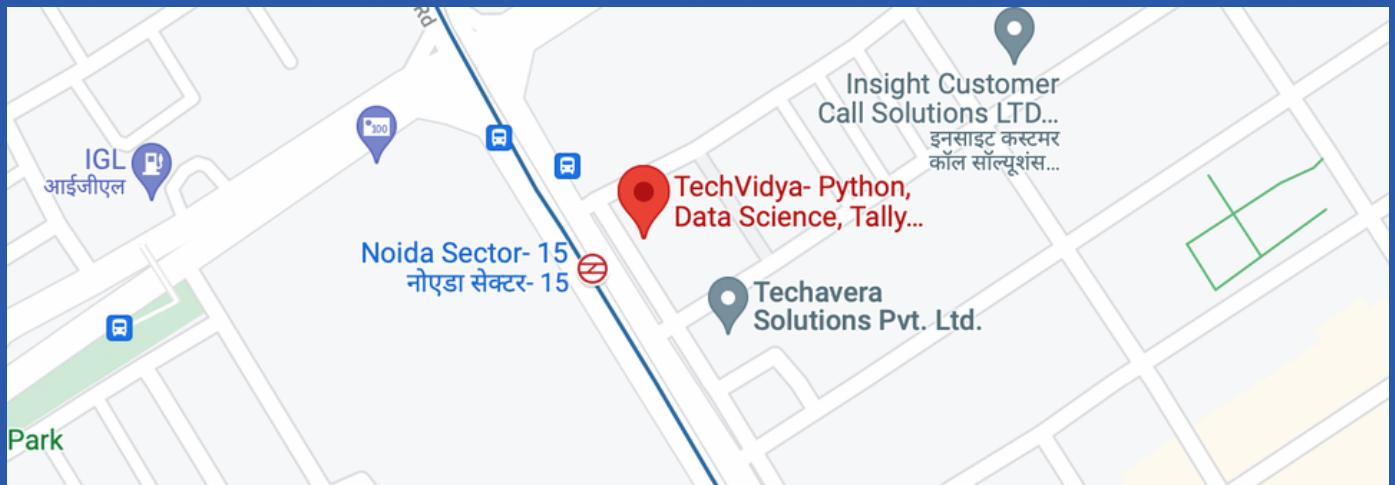
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How TechVidya enhance learning experience

THE ECONOMIC TIMES

16-Jun

The journey of an EduTech Company

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