

Delhi professional course Academy

DATA ANALYTICS







Data Analytics & Data Science Syllabus: -

Introduction to Statistical Analysis

	Counting, Probability, and Probability Distributions	
	Sampling Distributions	
□ E	Estimation and Hypothesis Testing	
	Scatter Diagram	
	Anova and Chisquare	
ΠI	mputation Techniques	
	Data Cleaning	
	Correlation and Regression	
	Introduction to Data Analytics	
	Data Analytics Overview	
☐ Importance of Data Analytics		
	Types of Data Analytics	
	Descriptive Analytics	
	Diagnostic Analytics	
	Predictive Analytics	
	Prescriptive Analytics	
	Benefits of Data Analytics	
	Data Visualization for Decision Making	



	Data Types, Measure Of central tendency, Measures of Dispersion
	Graphical Techniques, Skewness & Kurtosis, Box Plot
	Descriptive Stats
	Sampling Funnel, Sampling Variation, Central Limit Theorem, Confidence interval
Exc	el: Basics to Advanced
	Excel tutorial
	Text to Columns
	Concatenate
	The Concatenate Function
	The Right Function with Concatenation
	Absolute Cell References
	Data Validation
	Time and Date Calculations
	Conditional Formatting
	Exploring Styles and Clearing Formatting
	Using Conditional Formatting to Hide Cells
	Using the IF Function
	Changing the "Value if false" Condition to Text
	Pivot Tables
	Creating a Pivot Table
	Specifying PivotTable Data
	Changing a PivotTables Calculation
	Filtering and Sorting a PivotTable
	Creating a PivotChart
	Grouping Items
	Updating a PivotTable
	Formatting a PivotTable
	Using Slicers
П	Charts



Creating a Simple Chart Charting Non-
Adjacent Cells Creating a Chart Using the
Chart Wizard Modifying Charts Moving an
Embedded Chart Sizing an Embedded Chart
Changing the Chart Type Chart Types
Changing the Way Data is Displayed Moving
the Legend
Formatting Charts
Adding Chart Items
Formatting All Text
Formatting and Aligning Numbers
Formatting the Plot Area
Formatting Data Markers
Pie Charts
Creating a Pie Chart
Moving the Pie Chart to its Own Sheet
Adding Data Labels
Exploding a Slice of a Pie Chart
Data Analysis – Overview
types of Data Analysis
Data Analysis Process
Working with Range Names
Copying Name using Formula Autocomplete
Range Name Syntax Rules
Creating Range Names
Creating Names for Constants
Managing Names
Scope of a Name



	Editing Names Applying Names Using
	Names in a Formula Viewing Names in a
	Workbook Copying Formulas with Names
	Difference between Tables and Ranges
	Create Table Table Name Managing Names
	in a Table Table Headers replacing Column
	Letters
	Propagation of a Formula in a Table
	Resize Table
	Remove Duplicates
	Convert to Range
	Table Style Options
	Table Styles
	Cleaning Data with Text Functions
	Removing Unwanted Characters from Text
	Extracting Data Values from Text
	Formatting Data with Text Functions
	Date Formats
	Conditional Formatting
	Sorting
	Filtering
	Lookup Functions
	Pivoting
SQL	
	Introduction to Oracle Database
	Retrieve Data using the SQL SELECT Statement
	Learn to Restrict and Sort Data



	Usage of Single-Row Functions to Customize Output
	Invoke Conversion Functions and Conditional Expressions
	Aggregate Data Using the Group Functions
	Display Data from Multiple Tables Using Joins
	Use Sub-Queries to Solve Queries
	The SET Operators
	Data Manipulation Statements
	Use of DDL Statements to Create and Manage Tables
	Other Schema Objects
	Control User Access
	Management of Schema Objects
	Manage Objects with Data Dictionary Views
	Manipulate Large Data Sets
	Data Management in Different Time Zones
	Retrieve Data Using Sub-queries
	Regular Expression Support
Tab	leau
	Module 1: Tableau Course Material Start
	Page Show Me Connecting to Excel Files
	Connecting to Text Files Connect to
	Microsoft SQL Server Connecting to
	Microsoft Analysis Services Creating and
	Removing Hierarchies Bins Joining Tables
	Data Blending
	Module 2: Learn Tableau Basic Reports
П	



Parameters Grouping Example 1 Grouping
Example 2 Edit Groups Set Combined Sets
Creating a First Report Data Labels Create Folders
Sorting Data
Add Totals, Sub Totals and Grand Totals to Report
Module 3: Learn Tableau Charts
Area Chart
Bar Chart
Box Plot
Bubble Chart
Bump Chart
Bullet Graph
Circle Views
Dual Combination Chart
Dual Lines Chart
Funnel Chart
Traditional Funnel Charts
Gantt Chart
Grouped Bar or Side by Side Bars Chart
Heatmap
Highlight Table
Histogram
Cumulative Histogram
Line Chart
Lollipop Chart



Pareto Chart
Pie Chart
Scatter Plot
Stacked Bar Chart
Text Label
Tree Map
Word Cloud
Waterfall Chart
Module 4: Learn Tableau Advanced Reports
Dual Axis Reports
Blended Axis
Individual Axis
Add Reference Lines
Reference Bands
Reference Distributions
Basic Maps
Symbol Map
Use Google Maps
Mapbox Maps as a Background Map
WMS Server Map as a Background Map
Module 5: Learn Tableau Calculations & Filters
Calculated Fields
Basic Approach to Calculate Rank
Advanced Approach to Calculate Ra
Calculating Running Total
Filters Introduction
Quick Filters
Filters on Dimensions
Conditional Filters
Top and Bottom Filters
Filters on Measures



	Context Filters
	Slicing Fliters
	Data Source Filters
	Extract Filters
	Module 6: Learn Tableau Dashboards
	Create a Dashboard
	Format Dashboard Layou
	Create a Device Preview of a Dashboard
	Create Filters on Dashboard
	Dashboard Objects
	Create a Story
	Module 7: Server
	Tableau online.
	Overview of Tableau Server.
	Publishing Tableau objects and scheduling/subscription.
Pow	er Bl
	Module 1: Introduction to Power BI
	Get Started with Power BI
	Overview: Power BI concepts
	Sign up for Power BI
	Overview: Power BI data sources
	Connect to a SaaS solution
	Upload a local CSV file
	Upload a local CSV file Connect to Excel data that can be refreshed
0	Connect to Excel data that can be refreshed
_	Connect to Excel data that can be refreshed Connect to a sample
	Connect to Excel data that can be refreshed Connect to a sample Create a Report with Visualizations
0	Connect to Excel data that can be refreshed Connect to a sample Create a Report with Visualizations Explore the Power BI portal



Create a new report
Create and arrange visualizations
Format a visualization
Create chart visualizations
Use text, map, and gauge visualizations and save a report
Use a slicer to filter visualizations
Sort, copy, and paste visualizations
Download and use a custom visual from the gallery
Module 3: Reports and Dashboards
Modify and Print a Report
Rename and delete report pages
Add a filter to a page or report
Set visualization interactions
Print a report page
Send a report to PowerPoint
Create a Dashboard
Create and manage dashboards
Pin a report tile to a dashboard
Pin a live report page to a dashboard
Pin a tile from another dashboard
Pin an Excel element to a dashboard
Manage pinned elements in Excel
Add a tile to a dashboard
Build a dashboard with Quick Insights
Set a Featured (default) dashboard
Ask Questions about Your Data
Ask a question with Power BI Q&A
Tweak your dataset for Q&A
Enable Cortana for Power BI
Module 4: Publishing Workbooks and Workspace
Share Data with Colleagues and Others



Publish a report to the web
Manage published reports
Share a dashboard
Create an app workspace and add users
Use an app workspace
Publish an app
Create a QR code to share a tile
Embed a report in SharePoint Online
Module 5: Other Power BI Components and Table Relationship
Use Power BI Mobile Apps
Get Power BI for mobile
View reports and dashboards in the iPad app
Use workspaces in the mobile app
Sharing from Power BI Mobile
Use Power BI Desktop
Install and launch Power BI Desktop
Get data
Reduce data
Transform data
Relate tables
Get Power BI Desktop data with the Power BI service
Export a report from Power BI service to Desktop
Module 6: DAX functions
New Dax functions
Date and time functions
Time intelligence functions
Filter functions
Information functions
Logical functions
Math & trig functions
Parent and child functions



Text functions

Python	Advance	

	The print statement Comments
	Python Data Structures & Data Types
	String Operations in Python
	Simple Input & Output
	Simple Output Formatting
	Deep copy
	Shallow copy
	Operators in python
Λn	Introduction to Python
	Introductory Remarks about Python A Brief History of Python How python is differ from other languages Python Versions Installing Python IDLE Getting Help How to execute Python program Writing your first program
Py	thon Basics
	Python keywords and Identifiers Python statements Python indentation Comments in python command line arguments Getting user input Exercise
Va	riables and data types
	Introduction Variables Data types Numbers Strings Lists, tuples & Dictionary Exercise

Decision making & Loops

- IntroductionControl Flow and Syntax



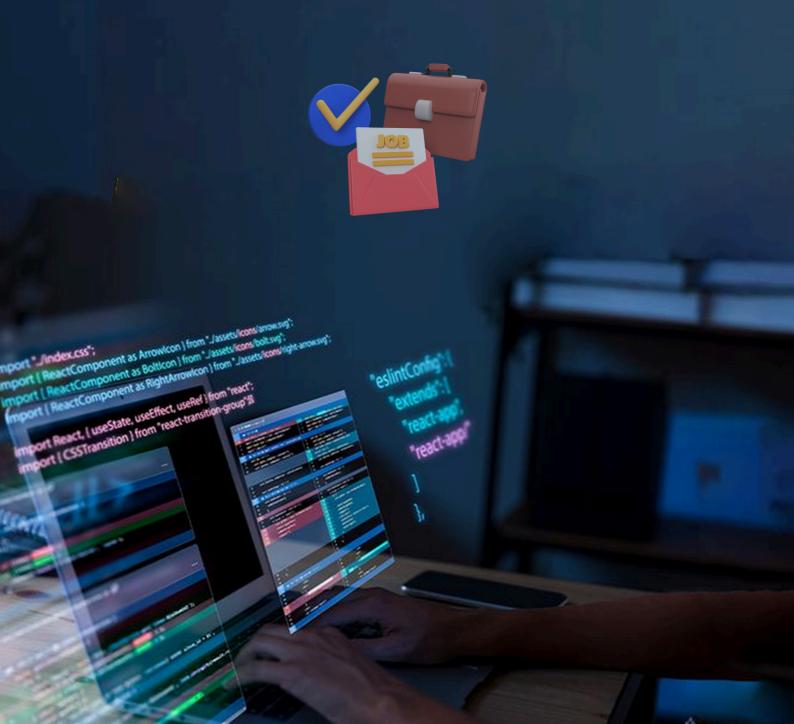
	The if Statement Python Operators The while Loop break and continue The for Loop Pass statement Exercise	
Fu	Introduction Calling a function Function arguments Built in functions Scope of variables Decorators Passing Functions to a Function Lambda Closures Exercise	
Modules and Packages		
	Modules Importing module Standard Module - sys Standard Module - OS The dir Function Packages Exercise	
Exception Handling		
	Errors Run Time Errors Handling IO Exceptions Try except statement Raise Assert Exercise	
Files and Directories		
	Introduction Writing Data to a File Reading Data From a File Additional File Methods Working with files Working with Directories The pickle Module Exercise	
Cla	asses Objects	
	Introduction classes and objects Creating Classes Instance Methods Special class method Inheritance	



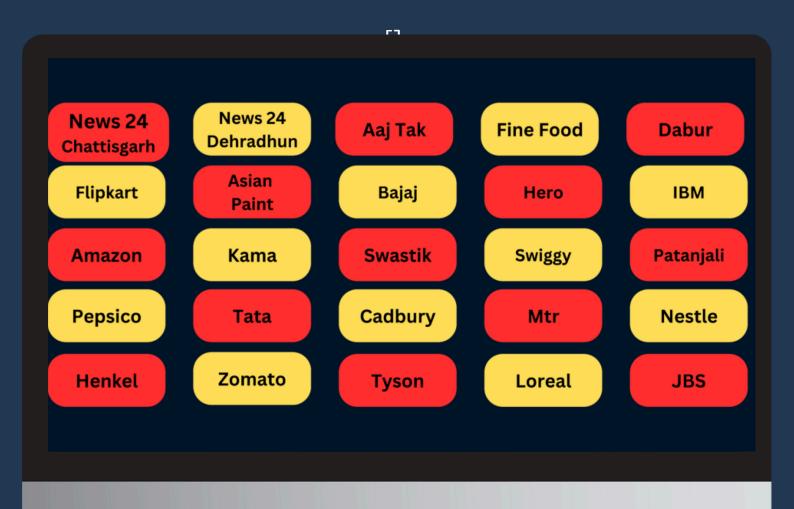
	Method overriding Data hiding Exercise	
	gular Expressions Introduction Match function Search function Grouping	
	Matching at Beginning or End Match Objects Flags Exercise	
Socket programming		
	What are sockets? Creating sockets Server-client socket methods Connecting client server Client-server chatting program Exercise	



100% Job Placement



Our Recruiter







THANKS!

Do you have any questions?







