



DATA ANALYTICS

PYTHON INTRODUCTION

What is programming?
Intro to python
python programming
how to install python
Hello World
Keywords
Identifiers
Keywords List
Statement Indentation
Comments
Variables & Constants
Literals
Type Conversion
Input/Output
Import
Python Operators
Namespace & Scope

SQL DATA ANALYTICS

Introduction to SQL
Installation of SSMS
Introduction to Data Concepts
Importing Databases
Big 6 Statements
Order of Queries
Order of Execution
Joins
Partitions
Index
Window Functions
Analytical Functions
Practice Exercises
Connecting SQL
with Excel & Power BI
Native Queries
Data Security

PYTHON DATA TYPES

Numbers
String
List
Tuple
Dictionary
Sets

PANDAS MODULE

DataFrame_from_Dictionary
DataFrame from_List
DataFrame_head()_and_tail()
DataFrame drop_columns
DataFrame_drop_duplicates
DataFrame_drop_columns
NA
rename_columns
Python dictionary
set_index
reset index

STATISTICS & CHARTS

Mean, Median and Mode
Quartile Vs Percentage Vs
Percentile
Distributions
Outliers
Basic Charts
Charts Types
Comparison
Relationship
Distribution
Composition
Trends
Spatial

NUMPY MODULE

Numpy Introduction
Array part 1
Array part 2

SEABORN MODULE

Loading Dataset
Controlling Aesthetics
Palettes
LM Plot & Reg Plot
Scatter Plot
Joint Plot
Additional Regression Plots
Categorical Data Plot
Dist Plot
Strip Plot
Box Plot
Violin Plot
Bar Plot
Count Plot
TimeSeries
Letter Value Plot
Factor Plot
PairGrid Plot
FacetGrid Plot
Heat Map
Cluster Map



DATA SOURCES

Identify and Connect to a data source
Types of Data Source
SQL APIs, OneDrive, CSV, Excel, Web etc.
Common Data Sources
Data Source Settings
Connection Modes -
Direct Query, Import, and Dual mode
Inconsistencies, Unexpected or Null Values
& Data Quality issue
Change data source settings including credentials, privacy levels & data source locations

ETL using Power Query

Introduction to Power Query
Introduction to M-Code
Data Types
Column Quality & Distribution
Data Source Settings
Removing Duplicates
Merging Columns
Transpose
Group By
Pivot Vs Unpivot
Parameters
Data Refresh Settings
Split Columns
Index Columns
Error Handling
Custom Functions
UI Vs M-Code
Custom Columns
Merge and Append Queries
Joins
Fuzzy Logic

PERFORMANCE OPTIMIZATION

Performance Analyzer
Diagnostics
DAX Studio
Best Practices

DATA MODELLING

Tables
Data Types
Primary Key Vs
Foreign Key Vs
Composite Key
Relationships
Star Schema Vs Snowflake Schema
Naming Convention
Hierarchies
Physical Vs
Virtual Relationships
Performance
Handling Missing / Null Values
Configuring Q&A

TIME INTELLIGENCE

Data Types
Calendar Vs Fiscal
Global Impact
Cumulative Aggregation
Rolling Totals
Parallel Comparison
Successive Time Comparison
Excel Vs DAX Vs M-Code
Calendar Table
Business Examples
Time Intelligence
DAX Functions

EXTERNAL TOOLS & DATA SECURITY

DAX Studio
Bravo for Power BI
DAX Formatter
Vertipaq Analyzer
Analyze in Excel
Data Source
User Authentication
Access Rights
Row Level Security
Roles Creation
Static Vs Dynamic
Sharing Reports
Mapping Files
Cross Filter
Security Filter

DAX

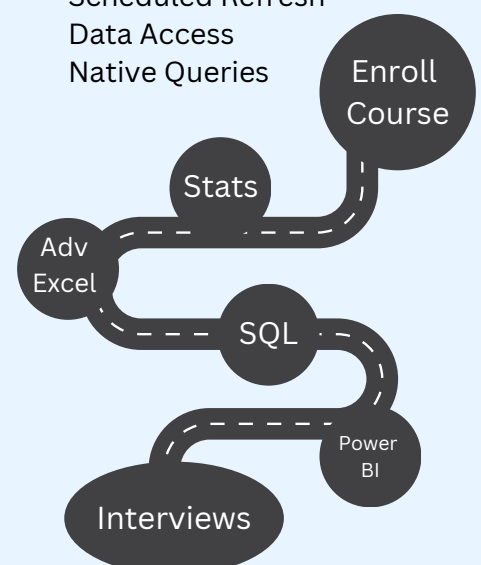
Introduction to DAX
DAX Functions
Types
Evaluation Context
Row Context Vs
Filter Context
Scalar Vs Tables
Calendar Table
Calculated Columns
Measures
Quick Measures

DATA VISUALIZATION

Themes
Reports Vs Dashboards
Wallpaper
Power BI Visuals
Slicers Vs Filters
Types of Filters
Edit Interactions
Format Options
Drill Down Vs Drill Through
Layers

REPORT MAINTENANCE

Workspaces
Roles in Workspace
Apps
Dashboards
Reports
Scheduled Refresh
Data Access
Native Queries



Visual Skill Plus

Live Projects / Case Studies
Weekly Assesments /Assignments
Technical/Aptitude/ Soft skills - conditional
Lab Facilities
Live Workshops / Webinars
Life Time Backup Recording Videos
Internship Certificate
Training Completion Certificate

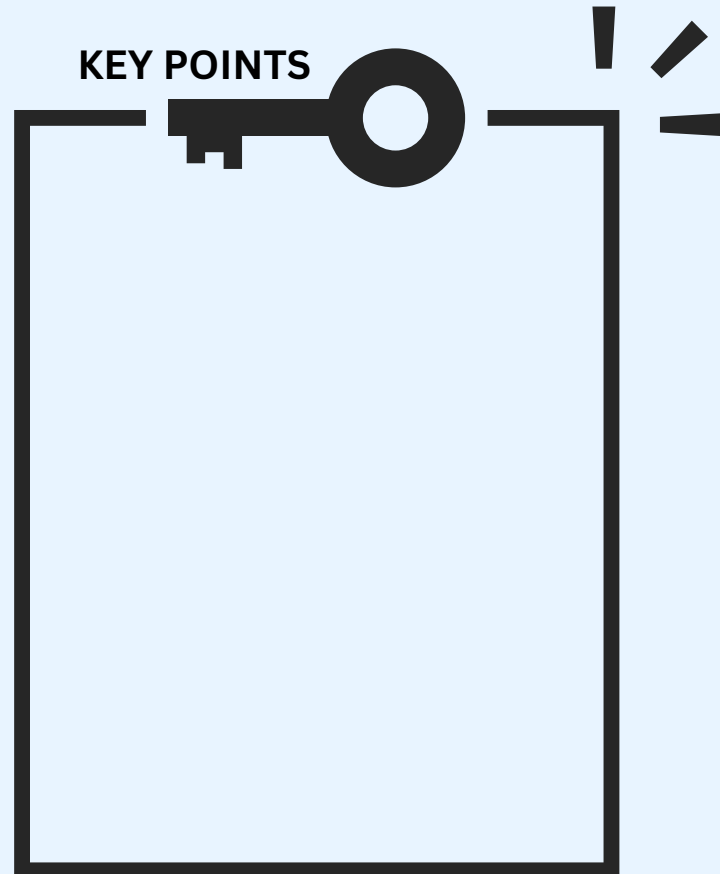
PLACEMENT ASSISTANCE

CV Preparation
Profile Optimization Techniques
Linkedin, Naukri, ATS, International Jobs
Interview Preparation
Mock Interviews
Profile Forward / IT Companies Drives
Nasscom Certification (Guidence)

JOB ASSIST PROFESSIONAL PROGRAMME

Placement Assistance
Weekend Intensive sessions
Industry Orientations

KEY POINTS



M1 Python Fundamentals
M2 Python Analytics
M3 Data Visualization
M4 Exploratory Data Analysis
M5 Business Statistics
M6 Machine Learning
M7 A.I-Deep Learning
M8 A.I Advance
M9 SQL
M10 Big Data & Cloud

DATA SCIENCE ROADMAP



Basic Python



Advanced Python



Data Manipulation



Stats & Probability



Data Visualization



Machine Learning



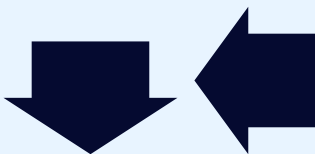
Deep Learning



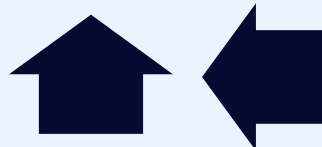
Projects



Deployment



Placements



CONTACT US



9494405249



visualskillinstitution.com



Info@visualskillinstitution.com