



Complete Practical, Real-time Job Oriented Training

Python Training

What is Python?

Python is a programming language used by Data Analysts, Business Analysts, Data Scientists and Programmers for handling ANY type of operations with respect to data in real-world. From Data Storage to Security, Analytics and Forecasts.

What is the role of Python in Data Analysis?

Using Python, we can perform Ch to Ch Data Analytics with ease. Very fast and easy to operate, implement. We can handle Big Data using Python Modules like Pandas, Numpy, etc..

What is the role of Python in Python Programming?

Using Python, we can perform Application Design and Programming to implement Business Logic. Python Programming is always in demand that needs good coding skills.

Who can join this course?

Anyone. We start the classes from scratch, right from Basics of Data, Database, Analysis. Then proceed for Scenario based activities and job orientation with Realtime Project.

What about the Lab? What are the System Requirements?

Window OS; 6 GB RAM; Any Processor. We shall guide you for Software Installation, Practice.

How to join the course?

For latest schedules, Free (LIVE) Demo: pls call us or visit: www.sqlschool.com

Master Python from our SQL School. Choose your preferred option from below:

	Course	Applicable For / Useful For	Content	Dur
1	Python Analytics	For Analysts, Developers	Chapters 1 to 18	4 Weeks
2	Python Programming	For Developers	Chapters 1 to 27	6 Weeks
3	Python AI – ML	For Experienced Developers	Chapters 1 to 39	9 Weeks

Module 1: Python Analytics

<p>Ch 1: Python Introduction</p> <ul style="list-style-type: none"> ✓ Need for Data Analytics ✓ Python in Data Analysis ✓ History of Python ✓ Python Versions ✓ Python Implementations ✓ Python Installations ✓ Python IDE & Usage ✓ Jupyter Notebooks 	<p>Ch 2: Python Basics, Architecture</p> <ul style="list-style-type: none"> ✓ Python Scripting Options ✓ Basic Operations in Python ✓ Python Scripts, Print() ✓ Single, Multiline Statements ✓ Adding Cells, Saving Notebook ✓ Single, Multi Line Comments ✓ Python : Internal Architecture ✓ Compiler Versus Interpreter 	<p>Ch 3: Data Types & Variables</p> <ul style="list-style-type: none"> ✓ Integer / Int Data Types ✓ Float & String Data Types ✓ Boolean, Binary Types ✓ Sequence Types: List, Tuple ✓ Range, Complex & memview ✓ Retrieving Data Type: type() ✓ Multi Assignments & Casting ✓ Unpack Collection, Outputs
<p>Ch 4: Python Operators</p> <ul style="list-style-type: none"> ✓ Arithmetic, Assignment Ops ✓ Comparison Operators ✓ Logical, Identity Operators ✓ Member, Bitwise Operators ✓ Operator Precedence ✓ If ... Else Statement, Pass ✓ Short Hand If, OR, AND ✓ ELIF and ELSE IF Statements ✓ Expressions, Ternary OPs 	<p>Ch 5: Python Loops, Iterations</p> <ul style="list-style-type: none"> ✓ Python Loop & Realtime Use ✓ Python While Loop Statement ✓ Break and Continue Statement ✓ Using Print with While() ✓ Iterations & Conditions ✓ Exit Conditions & For Loops ✓ Break, Continue & Range ✓ <code>__iter__()</code> and <code>__next__()</code> ✓ <code>iter()</code> and Looping Options 	<p>Ch 6: Python Collections</p> <ul style="list-style-type: none"> ✓ Python Collections (Arrays) ✓ <code>list()</code> Constructor, <code>print()</code> ✓ Python Tuples, Tuple Items ✓ <code>tuple()</code> Constructor, Usage ✓ Python Sets : Syntax Rules ✓ Duplicates, Types, Ordered ✓ Python Dictionaries: Usage ✓ Changeable, Ordered Data ✓ Dictionary Construct, <code>type()</code>
<p>Ch 7: Python Functions</p> <ul style="list-style-type: none"> ✓ Python Functions & Usage ✓ Function Parameters ✓ Arguments, <code>**kwargs</code> ✓ Default & List Parameters ✓ Python Lambda Functions ✓ Anonymous Functions ✓ Recursive Functions, Usage ✓ Return & Print @ Lambda 	<p>Ch 8: Python Classes & Arrays</p> <ul style="list-style-type: none"> ✓ Python Classes & Objects ✓ <code>__init__()</code> Function ✓ <code>__str__()</code> Function ✓ Self Parameters & Objects ✓ Python Inheritance & Classes ✓ Parent & Child Classes ✓ <code>__init__()</code> & <code>super()</code> Function ✓ Polymorphism in Python 	<p>Ch 9: Python Modules</p> <ul style="list-style-type: none"> ✓ import Python Modules ✓ Variables in Modules ✓ Built In Modules & <code>dir</code> ✓ <code>datetime</code> module in Python ✓ Date Objections Creation ✓ <code>strftime</code> Method & Usage ✓ <code>imports</code> & <code>datetime.now()</code> ✓ Using Python Constructors
<p>Ch 10: Python JSON & RegEx</p> <ul style="list-style-type: none"> ✓ JSON Concepts, Usage ✓ Dictionary & <code>import json</code> ✓ Python Objects into JSON ✓ Formatting & Ordering ✓ <code>json.dumps</code>, print options ✓ Python Regular Expressions ✓ RegEx Module & Functions ✓ <code>search()</code> & <code>span()</code> , Strings ✓ Using RegEx with JSON 	<p>Ch 11: Python User Inputs & TRY</p> <ul style="list-style-type: none"> ✓ Try Except, Exception Handling ✓ NameError Resolution ✓ Python Finally Block, Usage ✓ Raise an exception method ✓ TypeError, Scripting in Python ✓ Python User Inputs ✓ Python Index Numbers ✓ Named Indexes, Usage ✓ <code>input()</code> & <code>raw_input()</code> 	<p>Ch 12: Python File Handling</p> <ul style="list-style-type: none"> ✓ File Handling, Activities ✓ <code>r</code>, <code>a</code>, <code>w</code>, <code>x</code> modes ✓ <code>t</code>, <code>b</code> Operations ✓ Read Only Parts ✓ Loop, Write, Close Files ✓ Appending, Overwriting ✓ <code>import os</code>, <code>path.exists</code> ✓ <code>f.open</code>, <code>f.write</code> ✓ <code>f.read</code>, <code>f.close</code>

<p>Ch 13: Data Analytics - Pandas</p> <ul style="list-style-type: none"> ✓ Python Modules & Pandas ✓ Pandas Codebase & Usage ✓ Installation of Pandas ✓ import pandas.DataFrame ✓ Checking Pandas Version ✓ Pandas Series, arrays ✓ Labels : Creation, Use ✓ series(), print() 	<p>Ch 14: Data Analytics - DataFrames</p> <ul style="list-style-type: none"> ✓ Indexes & Named Options ✓ Locate Row and Load Rows ✓ Row Index & Index Lists ✓ Load Files Into a DataFrame ✓ pd.read_csv() Function ✓ pd.options.display.max_rows ✓ df.to_string() Function ✓ tail() & null() Function 	<p>Ch 15: Data Analytics - Pandas</p> <ul style="list-style-type: none"> ✓ Pandas - Cleaning Data ✓ Replace, Transform Columns ✓ Data Discovery & Column Fill ✓ Identify & Remove Duplicates ✓ dropna(), fillna() Functions ✓ Pandas - Data Correlations ✓ Good & Bad Correlation ✓ Data Plotting & matplotlib Lib
<p>Ch 16: SQL DB & Python - 1</p> <ul style="list-style-type: none"> ✓ SQL & Databases ✓ Azure Data Studio Tool ✓ sp_execute_external_script ✓ Input Data & Result Sets ✓ DDL & DML with Python ✓ SQL_out, SQL_in ✓ Variables & Parameters ✓ Versions, Package List ✓ WITH RESULT SETS Options 	<p>Ch 17: SQL & Python - 2</p> <ul style="list-style-type: none"> ✓ pandas.Series with SQL DBs ✓ Indexing Methods in Realtime ✓ Convert series to data frame ✓ Output values into data.frame ✓ pymssql package in SQL Server ✓ pip list & Package Manager ✓ Python runtime, Py Package ✓ pymssql.connect & Usage ✓ Cursor Variables & Usage 	<p>Ch 18: Realtime Case Study</p>

Module 2: Python Programming

<p>Ch 19: Python Dictionary</p> <ul style="list-style-type: none"> ✓ Dictionary Creation, Use ✓ Hashing, Copy, Update ✓ Deletion, Sorting ✓ Len(), Inbuilt Functions ✓ Variable Types - python List ✓ Cmp() List Method ✓ Python Dictionary Str(dict) ✓ Programming Concepts ✓ Loops and Sets ✓ Realtime Usage 	<p>Ch 20: Python Packages</p> <ul style="list-style-type: none"> ✓ Package in Python ✓ Creating a package ✓ Package Imports, Modules ✓ Sub Packages Creation ✓ Sub Package Imports ✓ Popular Packages in Python ✓ NumPy & SciPy ✓ Libraries in Python ✓ Python Seaborn ✓ Python framework 	<p>Ch 21: Exception Handling</p> <ul style="list-style-type: none"> ✓ Shell Script Commands ✓ OS operations in Python ✓ File System Shell Methods ✓ os - math - cmd - csv - random ✓ Numpy (numerical python) ✓ Pandas - sys - Matplotlib; ✓ Common RunTime Errors ✓ Python Custom Exception; ✓ Exception Handling ✓ Try...Except...else, Try...finally
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<p>Ch 22: Python Class & Objects</p> <ul style="list-style-type: none"> ✓ Class variables, Instances ✓ Built in Class Attributes ✓ Objects - Constructors ✓ Modifiers - Self Variable ✓ Python Garbage Collections ✓ Hierarchical Inheritance ✓ Multilevel, Multiple, Hybrid ✓ Overloading & OverRiding ✓ Polymorphism - Abstraction 	<p>Ch 23: Regular Expressions</p> <ul style="list-style-type: none"> ✓ Regular Expression ✓ Regular Expression Patterns ✓ Literals - Repetition Cases ✓ Groups and Grouping ✓ w+ and ^ , \s Expressions ✓ re.split function ✓ Regular expression methods ✓ re.match() in Regular Expr ✓ re.search(), re.findall for Text 	<p>Ch 24: Multi-Threading</p> <ul style="list-style-type: none"> ✓ Python Multi-Threading ✓ Thread Synchronization ✓ Multiprocessing ✓ Python Gil & Programming ✓ Thread Control Block (TCB) ✓ Stack Pointers & App Usage ✓ Program Counters in Realtime ✓ Thread State Concept ✓ Python Exception Handling
<p>Ch 25: Python TKinter</p> <ul style="list-style-type: none"> ✓ Tkinter GUI Program ✓ Components & Events ✓ Adding Controls in Tkinter ✓ Entry, Text Widgets ✓ Radio & Check Buttons ✓ Tkinter Forms in Realtime ✓ List Boxes, Menu, ComboBox ✓ Mainloop () & Functions 	<p>Ch 26: Python Web & IoT Intro</p> <ul style="list-style-type: none"> ✓ Python Web Frameworks ✓ Django : Advantages ✓ Web Framework ✓ MVC and MVT - Django ✓ Web Pages using python ✓ HTML5, CSS3 usage ✓ PYTHON Bottle & Pyramid ✓ Falcon ; smart_open in python 	<p>Ch 27: Real-time Project</p>

Module 3: Python with AI - ML

<p>Ch 28: Machine Learning Basics</p> <ul style="list-style-type: none"> ✓ Machine Learning Funda ✓ Python ML in Realtime ✓ Pandas Extension in ML ✓ Machine Learning Ops ✓ Business to Data Conversions ✓ ML Algorithms in Realtime 	<p>Ch 29: Python ML Concepts</p> <ul style="list-style-type: none"> ✓ Machine Learning (ML) Intro ✓ Supervised, Unsupervised ✓ Scikit-Learn Library ✓ Python Libraries for ML ✓ sklearn : Advantages & Uses ✓ sklearn : Functions, Use 	<p>Ch 30: Python Data Handling</p> <ul style="list-style-type: none"> ✓ Data structures ✓ Lists, Tuples, Sets ✓ Dictionaries, ✓ Pandas Data Operations ✓ Data Visualizations ✓ Matplotlib & Seaborn
<p>Ch 31: AI With Python Intro</p> <ul style="list-style-type: none"> ✓ Artificial Intelligence ✓ Applications of AI ✓ AI Applicative Uses ✓ AI Usage with Python ✓ AI - Python Environment ✓ Python Libraries ✓ AI with Python in Realtime 	<p>Ch 32: Supervised Learning</p> <ul style="list-style-type: none"> ✓ Linear & Logistic Regression ✓ Decision Trees ✓ Random Forests ✓ Support Vector Machines ✓ Neural Networks Basics ✓ Linear Regression Steps ✓ Linear Regression in AI-ML 	<p>Ch 33: Unsupervised Learning - 1</p> <ul style="list-style-type: none"> ✓ Clustering & K-means ✓ DBSCAN & Realtime Usage ✓ Dimensionality Reduction ✓ K clustering hierarchical ✓ DBScan : Realtime Uses ✓ KMeans clustering Vs DBSCAN? ✓ PCA Vs t-SNE
<p>Ch 34: Unsupervised Learning 2</p> <ul style="list-style-type: none"> ✓ Unsupervised Learning 	<p>Ch 35: Generalized Models</p> <ul style="list-style-type: none"> ✓ GLM Concept in Python 	<p>Ch 36: Python Tree Models</p> <ul style="list-style-type: none"> ✓ Decision Tree Models

<ul style="list-style-type: none"> ✓ Concepts and Scope ✓ Realtime Usage ✓ Dimensionality Reduction ✓ Component Analysis (PCA) ✓ PCA: Concept & Usage 	<ul style="list-style-type: none"> ✓ GLM in Regression ✓ Considerations for GLM ✓ Problem Solving Skills ✓ Python Libraries ✓ Python Extensions: GLM 	<ul style="list-style-type: none"> ✓ Decision Tree Working ✓ Model Works, Algorithms ✓ Random Forest Concept ✓ Random Forest Tree ✓ Random Forest Vs Knn
<p>Ch 37: Big Data and ML</p> <ul style="list-style-type: none"> ✓ Spark and Big Data ✓ Big Data with Python ✓ Spark with Python ✓ Spark with Big Data ✓ Spark Algorithms ✓ AI ML Libraries 	<p>Ch 38: Natural Lang” Processing</p> <ul style="list-style-type: none"> ✓ NLP : Purpose, Usage ✓ NLP Applicative Uses ✓ NLP Vs Machine Learning ✓ NLP in Machine Learning ✓ Using NLP in AI - ML ✓ NLP code in Python? 	<p>Ch 39: AI in Real-World</p> <ul style="list-style-type: none"> ✓ AI in Chatbots ✓ AI in Virtual Assistants ✓ AI Ethical Considerations ✓ AI Deployments (Flask) ✓ AI with FastAPI ✓ AI with Streamlit
<p>Ch 40: Python AI – ML Realtime Project with Resume, Job Assistance</p>		

All sessions are practical, step by step. Kindly ensure on-time practice for best results.



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Trending Job Roles

- Data Analyst
- Data Engineer
- Data Architect
- Data Scientist
- Developer, more .. !

Training Highlights

- ✓ Step by Step
- ✓ LIVE Project(s)
- ✓ Job Assistance
- ✓ Resume Guidance
- ✓ Concept wise FAQs

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