

**PYTHON
TRAINING
INSTITUTE**

 pythontraining.net

PYTHON+ DATA SCIENCE + MACHINE LEARNING

FROM THE HOUSE OF



ADVANCED CERTIFICATION IN PYTHON PROGRAMMING

Delhi's #1 institute with maximum no. passed out students in Offline/ Online modes

TollFree: 18001020418, Ph.: 9582786406/07, www.pythontraining.net



from the desk
of our CEO

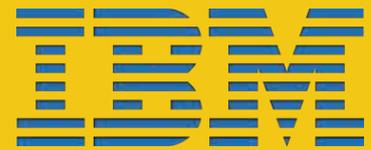
Dear Graduate Engineers, Working Professionals and all the aspirants those who plan to make a career in data science- UPSKILLING is the need of the hour
A recent study by major IT firm Wipro reveals that 75% organizations find the need to upgrade IT infrastructure. At a Time when most organizations take digital transformation plunge new avenues are coming up fast in Data Science, machine learning, Artificial intelligence, Cloud computing, Cyber security & blockchain technologies. Job demands remain in HIGH numbers in all these areas. Flexibility and learning new skills will be a HUGE asset to your career path specially in post covid19 job market.

Upskill and Upgrade now...

Happy learning for a great career
Ravi Ranjan, founder
pythontraining.net



Our hiring
Partners



200+ COMPANIES

One of India's Top Rated Training Centres for Python programming, Data Science, AI & Web development- Python Training institute from the house of TGC India has trained thousand of students in the span of last 20 years. Our core motto is to provide practical training imparted by pro trainers on an industry sought after syllabus. Apart from daily sessions, students work on Work sheets, projects under the assistance of our trainers, specially designed codathons and other meticulously designed placement oriented exercises. We arrange mock interviews and practical test on regular basis.

Why to Choose Python Training Institute ?



**EXPERIENCED
TRAINERS**



**ADVANCED
CURRICULUM**



**WEEKLY
ASSIGNMENTS**



**DEDICATED
PORTAL**



**MOCK
INTERVIEWS**



**PRACTICAL
SESSIONS**



**ONE-TO-ONE
MENTORSHIP**



**DEDICATED
HR TEAM**



**REAL-TIME
PROJECTS**

Picture Gallery



Python training
institute Got
Featured in

NBT
नवभारत टाइम्स


प्रभात खबर


पत्रिका

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नखली की दहिरा नया नदीय

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दैनिक भास्कर


जागरण

The Tribune
[VOICE OF THE PEOPLE]



other courses offered...



<i>Python Programming</i>	<i>6-8 weeks</i>
<i>Data Analytics</i>	<i>8 weeks</i>
<i>R Programming</i>	<i>8 Weeks</i>
<i>Django Framework</i>	<i>6 weeks</i>
<i>Flask Framework</i>	<i>6 weeks</i>

<i>Tableau</i>	<i>8 weeks</i>
<i>AWS</i>	<i>12 Weeks</i>
<i>Hadoop</i>	<i>10 Weeks</i>
<i>Full Stack development</i>	<i>16 weeks</i>



Job Market

Job Roles Available

Jr Data Scientist

Data Analyst

Business Intelligence Analyst

Data Mining Engineer

Data Architect

Senior Data Scientist

Data Engineer

61%

Jobs are open for candidates with 0-5 years experience.

33.5%

Jobs are open for candidates with 0-5 years experience.

Indian data science industry is growing at a healthy rate of 33.5 per cent CAGR.

46%

Analytics professionals in India have a work experience of less than 5 years.

*Sources: PWC, NASSCOM, Analytics India Magazine.

Job Market

Data Scientist is the hottest Job of the 21st Century.

8,000+ New job postings for data scientists each month.

5,00,000+ Skilled Data Scientists required by the End of 2020.

GlassDoor ranked it top place for popular jobs.

Salaries range from 4 LPA to 15 LPA.

REVIEWS

@pythontraining.net



Rajasva Raj

4 reviews



★★★★★ a year ago

Positive: Communication, Professionalism, Quality, Value

I just wanted to tell you how much I enjoyed the class (Python core ND Python Advance). What an excellent instructor and I learned things that I did not know about Project including how to do things better than I have been. Again thank you ... [More](#)

Like



mm ki vines

1 review



★★★★★ a year ago

I have done python course from python training.net.. I had a great experience with Gourav sir are very good and supportive every step. Course structure is great thanks for all support

1



Anshu chakravarti

3 reviews



★★★★★ 2 years ago

I python course here and I'm happy .Deepak sir and all staff is very kind and supportive , they help me every step even after course completion.i feel any doubt they help me out.

2



Tushar Singh

8 reviews · 1 photo



★★★★★ 2 years ago

Faculty is very good.. Good institute for learning python programming language. Thanks to Mr Deepak sir

Like



Dhruv Choudhary

3 reviews



★★★★★ 2 years ago

Good infrastructure and faculty. Would highly recommend to everyone. I did a course in Python for 1 month. All topics were covered and it was a good learning experience.

Like

REVIEWS

@pythontraining.net



Vipin Yadav

3 reviews · 25 photos

★★★★★ a year ago

Had a great Experience here in python training institute learning Python from Gourav Sir. The staff here are so helping in nature. Gourav sir helped me a lot in clearing my doubts. Center provide free WIFI and you can sit and study here even after your class.

Like



Vibhuti Sehgal

1 review

★★★★★ a year ago

TGC is one of the best institute you can have. I completed my Python course from this institute. They had the best faculty who clear all your doubts personally. If you are finding the best institute for Python then for sure recommend this.

Like



PRANAAM DHIMAN

3 reviews

★★★★★ a year ago

Excellent institute for Python course. Faculties are very good and supportive Aat every step. Course structure is great..

Like



sandeep kaur

8 reviews

★★★★★ 2 years ago

I did my Python programming here. Deepak sir provides very knowledgeable training and gives helpful insights for Industry experience. I am happy with my experience.

Like



Khushboo Kumari

1 review

★★★★★ a year ago

One of the best institute for python in delhi. And the staff is really helpful.

Like

6 WEEKS - PYTHON

Module 1 - Introduction to Python (1 Session)

- *Overview of Python*
- *Features of Python*
- *How Python is different from other languages*
- *Applications of Python*
- *How Python is reshaping the IT Industry?*
- *Installing Jupyter/VS Code*
- *Working on popular IDEs - Jupyter, Vs Code*
- *Working your first Python program*

Module 2 - Variables, Data Types & Operators (1 Session)

- *Variables*
- *Rules for naming a variable*
- *Comments in python*
- *Data Types*
- *Operators*
- *Types of Operators*
- *print method and its argument*
- *Different print formatting methods*
- *input method*
- *Typecasting*

Module 3 - Strings (1-2 Sessions)

- *Strings*
- *Indexing on Strings*
- *Slicing on Strings*
- *Immutable Strings*
- *String Methods I - upper, lower, title, capitalize, swapcase*
- *Strings Methods II - strip, find, index, isalnum*
- *Strings Methods III - startswith, endswith, split, replace*
- *Strings Methods IV - isalpha, isalnum, isupper, islower*

Exercise - String based questions

Module 4 - Conditionals and Loops (2 Sessions)

- *Conditional Statements*
- *If elif and else statements*
- *Nested if*
- *Loops*
- *For loop and range function*



• <i>While loop</i>
• <i>break and continue statements</i>
• <i>For-else and while-else statement</i>
Exercise - Conditional and loop based questions

Module 5 - Patterns using for loop	(1 Sessions)
• <i>Number based patterns</i>	
• <i>Alphabet based patterns</i>	
• <i>Shape based patterns</i>	
• <i>Mixed patterns</i>	
Exercise - Interview based pattern questions	

Module 6 - Functions	(2 Sessions)
• <i>Different types of functions</i>	
• <i>User defined Functions</i>	
• <i>Creating functions with and without arguments</i>	
• <i>Positional and default arguments</i>	
• <i>Using return keyword in functions</i>	
• <i>Recursive Functions</i>	
• <i>args and kwargs</i>	
• <i>Scope of variables - local and global</i>	
• <i>Anonymous Functions - lambda</i>	
Exercise - Functions and Recursion	

Module 7 - List and its methods	(1 Session)
• <i>What is list?</i>	
• <i>Creating empty list</i>	
• <i>Mutable and ordered list</i>	
• <i>Iterating in a list using for and while loop</i>	
• <i>Indexing and slicing in list</i>	
• <i>List Methods I - append, extend, clear, count, pop</i>	
• <i>List Methods II - index, insert, remove, sort, reverse</i>	
• <i>Applying max, min and sum on a list</i>	
• <i>List Comprehension</i>	

Module 8 - Set and its methods	(1 Session)
• <i>What is Set?</i>	
• <i>Creating empty set</i>	
• <i>Unordered Set</i>	



• <i>Set Methods I - add, union, update, difference, difference_update</i>
• <i>Set Methods II - intersection, intersection_update, clear</i>
• <i>Set Methods III - symmetric_difference, pop, remove</i>
• <i>Set Methods IV - symmetric_difference_update, discard</i>
• <i>Set Comprehension</i>
Exercise - List, and Set

Module 9 - Tuple and Dictionary	(1 Session)
• <i>What is Tuple?</i>	
• <i>Creating empty tuple</i>	
• <i>Immutable and ordered tuple</i>	
• <i>Iterating in a tuple</i>	
• <i>Tuple Methods - index, count</i>	
• <i>What is Dictionary?</i>	
• <i>Creating empty dict</i>	
• <i>Keys and values in a dict</i>	
• <i>Iterating in dict</i>	
• <i>Dictionary Methods I - get, keys, values, items, clear</i>	
• <i>Dictionary Methods I - setdefault, update, pop, popitem</i>	
• <i>Dictionary Comprehension</i>	
Exercise - List, Tuple, Set and Dictionary	
Project - Banking deposit and withdraw system	

Module 10 - Modules and Inbuilt Functions	(1 Session)
• <i>Importing modules</i>	
• <i>dir method</i>	
• <i>Using modules I - math, random</i>	
• <i>Using modules II - itertools, collections</i>	
• <i>Inbuilt Functions I - map, reduce, filter</i>	
• <i>Inbuilt Functions II - enumerate, eval, zip</i>	
Exercise - Inbuilt functions and libraries	

Module 11 - File Handling	(1 Session)
• <i>Working with files</i>	
• <i>Opening and closing a file</i>	
• <i>Modes of opening a file</i>	
• <i>Reading, writing and appending to a file</i>	
• <i>Handling text files using readlines, read, tell, seek methods</i>	
• <i>Handling csv files in python</i>	
Exercise - Sales data analysis using File handling	



Module 12 - Exception Handling	(1 Session)
• <i>What is Exception?</i>	
• <i>Understanding try-except-else block of code</i>	
• <i>finally keyword</i>	
• <i>Types of exceptions I - ZeroDivisionError, TypeError, NameError</i>	
• <i>Types of exceptions II - ValueError, IndexError</i>	
• <i>Handling multiple Exceptions</i>	
• <i>raise keyword to generate exceptions</i>	

Module 13 - Database connectivity with Python	(2 Sessions)
• <i>Installing SQL Server/ Mongo DB/ MySQL</i>	
• <i>Understanding fundamental SQL/ MongoDB operations</i>	
• <i>Creating, using and deleting database</i>	
• <i>Creating, inserting and updating a table in SQL</i>	
• <i>Connecting Python with database</i>	
• <i>Creating cursors</i>	
• <i>Executing CRUD operations in Python with SQL / MongoDB</i>	

Module 14 - Object Oriented Programming	(2 Sessions)
• <i>Understanding class and objects</i>	
• <i>self keyword</i>	
• <i>Creating a class in Python</i>	
• <i>Understanding constructor</i>	
• <i>Difference between a constructor and a method</i>	
• <i>Types of variable - Instance and static</i>	
• <i>Creating, accessing, modifying and deleting Instance variables</i>	
• <i>Creating, accessing, modifying and deleting Static variables</i>	
• <i>Types of Methods - Instance, Class and Static methods</i>	
• <i>Getter and Setter methods</i>	
• <i>Understanding Inheritance</i>	
• <i>Parent and Child class</i>	
• <i>super method</i>	
• <i>Types of Inheritance - single, multilevel, multiple, hierarchical</i>	
• <i>Polymorphism and method overriding</i>	
• <i>Public private and protected variables</i>	
• <i>Encapsulation</i>	
Exercise - OOPC	



Module 15 - Generators and Decorators	(1 Session)
<ul style="list-style-type: none"> • <i>Understanding generators</i> <ul style="list-style-type: none"> • <i>yield keyword</i> • <i>next method</i> • <i>Understanding Decorators</i> • <i>Creating a decorators using @decorator_name</i> • <i>Using decorators with args and kwargs</i> 	

Module 16 - DateTime in Python	(1 Session)
<ul style="list-style-type: none"> • <i>Working with date and time</i> • <i>Extracting year, month, day</i> • <i>Extracting hour, minutes, seconds</i> • <i>Converting date to strings</i> • <i>Converting strings to date</i> • <i>Adding and subtracting datetime using timedelta</i> • <i>Different datetime formats</i> 	
Project - Odd-Even Rule Challan system	

Module 17 - Fetching API using Python	(1 Session)
<ul style="list-style-type: none"> • <i>Handling Json data in Python</i> • <i>Json dumps and loads method</i> • <i>What is an API?</i> • <i>Requests module</i> • <i>Fundamentals of requests module</i> • <i>Fetching API data using requests module</i> 	
Project - Fetching data from Covid API	

Module 18 - Web Scraping	(2 Sessions)
<ul style="list-style-type: none"> • <i>Installing BeautifulSoup and requests</i> • <i>Extracting URLs from a web page</i> • <i>Scraping text data from a web page</i> • <i>Crawling multiple pages and scraping data from each of them</i> • <i>Saving scraped data to a csv file</i> 	
Project - Scraping a website with BeautifulSoup	

Module 19 - Tkinter (Optional)	(2 Sessions)
<ul style="list-style-type: none"> • <i>Importing Tkinter</i> • <i>Creating first Tkinter GUI in Python</i> 	



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|--|
| • <i>Understanding tkinter geometry using grid and place</i> |
| • <i>Tkinter Widgets I - Labels, Buttons</i> |
| • <i>Event binding with buttons</i> |
| • <i>Tkinter Widgets II – RadioButton, Checkbox</i> |
| • <i>Event binding with Radiobuttons and Checkbox</i> |
| • <i>Tkinter Widgets III - Scale, OptionMenu</i> |
| • <i>Creating a simple tkinter calculator</i> |

Projects (Any Two)

- | |
|--|
| • <i>Scraping website with BeautifulSoup</i> |
| • <i>Weather Prediction App using API</i> |
| • <i>Simple MCQ Quiz App</i> |
| • <i>Tic-Tac-Toe game</i> |
| • <i>Fetching data from Covid API</i> |

Solving common Python based interview questions
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