Techvanto Academy

SUMMER TRAINING

PYTHON

PYTHON PROGRAMMING

Python is a powerful, interpreted, general-purpose programming language.It is used in web development, data science, creating software prototype, and so on. Python's design focuses on code readability with its significant indentation.

Duration : 30-45 Days

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1. Internship and Full-Time job offer after training
2. An ISO Certificate of completion will be provided
   by Techvanto Academy
3. Learn technology from Industry Experts.
4. 90% Practical Internship
5. Live Classes
6. Placement Interviews

Demand of Python Programming

As of August 2019, Python was the most popular programming language based on how often its tutorials were searched on Google. (Source: PYPL index) Python programming is in high demand for jobs. Based on the number of job postings on one of the largest job search platforms, Indeed.com.
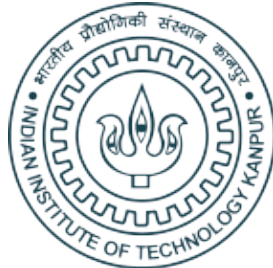
Live Training

OUR CLIENTS :

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LPU
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UNIVERSITY

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NOIDA

MOTIHARI
BIHAR

IIIT DM
JABALPUR

Many more....

PYTHON PROGRAMMING

JOB PROFILES IN PYTHON :

1.   **SOFTWARE ENGINEER**

2.   **PYTHON DEVELOPER**

3.   **RESEARCH ANALYST**

4.   **DATA SCIENTIST**

5.   **DATA ANALYST**

6.   **SOFTWARE DEVELOPER**

AVERAGE PACKAGE IN PYTHON :

Here are some starting salary midpoints according to payscale.com:

1.   **Software Developer: $71,557**

2.   **Sr. Software Developer: $110,250**

3.   **Data Scientist: $96,674**

4.   **DevOps Engineer: $63,645**

90% Practical Training

1. Nokia

2. Netflix

3. Google

4. Facebook

5. Amazon

6. IBM

7. Walt Disney Feature Animation

1. INTRODUCTION TO PYTHON

1. What is python?
2. What is the future scope?
3. Application Areas, Features, Advantages
4. Understanding the command window and Script window
5. Environment Set
6. History of Python
7. Version of Python
8. Feature of Python
9. Execution of Programs

2. PYTHON VARIABLES, DATA TYPES, OPERATORS

1. What is Variable?
2. Assign Variables
3. Data Types
4. Types of Operators
5. Arithmetic Operators
6. Relational Operators
7. Assignment Operators
8. Logical/Boolean Operators
9. Identity Operators
10. Membership Operators
11. Bitwise Operators
12. Operators Precedence & Assosciativity

Weekly Projects

1. if Statements
2. if-esle Statements
3. elif Statements
4. nested if-else Statements
5. for loop
6. while loop
7. break statements
8. continue statements
9. pass Statements
10. Python Data Type Casting

Live Training

1. Mathematical Function, Random Function & Trigonometric Function
2. Accessing Strings & Basic Operators
3. String slices & String Built-in Function
4. Accessing List, List Operations
5. Working with List & List slices
6. Aliasing & Cloning
7. List Comprehension & deleting List
8. Built-in functions for List
9. Tuple
10. Creating, Accessing, Modifying & Deleting Tuple
11. Renaming Tuple & its Built-in function

5. PYTHON DICTIONARY/SETS/ DATE & TIME

1. Introduction to Python Dictionary
2. Creating, Accessing, Deleting Dictionary
3. Built-In Functions
4. Introduction to Python Sets
5. Declaring Sets & Operations on Sets
6. The time Module
7. The Calender Module

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6. PYTHON FUNCTION/MODULE

1. Defining a Function
2. Calling a Function
3. Types of Functions
4. Function Arguments
5. Anonymous Functions
6. Global & Local Variables
7. Introduction to Module
8. import Statement
9. from...import Statement
10. from...import* Statement

90% Practical Training

7. FILE HANDLING/ EXCEPTION HANDLING

1. Introduction to Python File Handling
2. Opening & Closing Files
3. Reading & Writing Files
4. Rename & Remove Files
5. The Directories
6. Error in Python Program
7. Types of Exception
8. Handling Exception in Python
9. Raising Exception
10. User Defined Exception

Learn from Industry Experts

8. PYTHON OOPs CONCEPT/ MULTITHREADING/ MAIL SENDING

1. Class & Object
2. Attributes
3. Inheritance, Overloading & Overriding
4. Interface & Abstraction
5. thread & Starting a thread
6. threading a module
7. Synchronizing thread
8. Multithreaded priority queue
9. Introducing about mail sender
10. Execute Mail program
11. Attachment with file & sending multiple mail

Weekly Projects

9. PYTHON REGULAR EXPRESSION/ DATABASE CONNECTION/ INTERACTING WITH NETWORK

1. Match Function
2. Search Function
3. Matching Vs Searching
4. Modifiers
5. Patterns
6. Database Connections
7. Executing queries & Transactions
8. Handling Error
9. Socket in Python
10. TCP/ IP Client & Server
11. Creating a Client/ Server Program/ Executing Socket Program

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1. Socket in Python
2. TCP/IP Client & Server
3. Creating a Client/ Server Program
4. Executing Socket Program
5. Tkinter Programming
6. Tkinter widgets
7. Scrape all the details of any website
8. Built-in Functions

11. IDEA ABOUT PYTHON IP/DS/ML/AI

This section will give you the basic idea about using of python. in various other fields like Image Processing, Data Science, Machine Learning & Artificial intelligence:

1. Introduction to Python Image Processing
2. Image Processing
3. Loading Video
4. Reading Image
5. Saving a capture video
6. Introduction to Data Anlaysis in Python
7. plotting of graph

1. Number Guessing
2. Contact Book
3. Python Story Generator
4. Youtube Video Downloader
5. Python Website Blocker
6. Desktop Notifier App
7. URL Shortener using Python
8. Scientific calculator using Python

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