

## 90 Hours Python Training Program



### Introduction

Python is one of the most used programming language in the world. It is compatible with any of the high end Frameworks like Big Data, Analytics, and Machine Learning. Fortune 500 companies like Google, Facebook, Amazon, YouTube, NASA, Reddit, Quora, Mozilla use Python.

We have compiled a 90 hours professional training program to master Python programming language, that too with practical exposure and project development. This training program encompass the basic concepts of Python like setting up the IDE, variables, operators, loops as well as Object Oriented concepts of classes, objects, inheritance, polymorphism. Other important techniques like Regular Expression, Multithreading too are covered. Our major attraction for this training program are in depth coverage of Django Web Framework and Introduction to OpenCV.

# Course Details

Duration	Session	Projects	Students
90 hours	3 per week	2	12 per batch

## Course Content

### Setting up Python

- History of Python
- Downloading and setting IDE for Python
- Writing Hello World Program

### Basics of Python

- Identifiers
- Reserved Words
- Lines and Indentation
- Multi-line statements
- Single Line Comments
- Input
- Naming Conventions
- Variables
- What are variables?
- Assigning Values
- Assigning Values to Multiple Variables.
- Number
- Strings
- List
- Tuples and Dictionary in Detail
- Basic Operators
- Decision Making
- Looping Structure
- Functions and Lambda Functions

### Object Orientation with Python

- Classes
- Objects
- Inheritance

- Abstraction

## Advanced Python

- Modules and Packages
- Exception Handling
- Regex
- Multi-Threading

## Introduction to OpenCV

**OpenCV** (Open Source Computer Vision) is a library of programming functions mainly aimed at real-time computer vision. Originally developed by Intel, it was later supported by Willow Garage and is now maintained by Itseez. We provide a small project based introduction for this module

## Django Web Framework

- Intro to Django
- MVC Framework
- Why Django?
- History of Django
- Getting Started, Installing necessary software, Hello World project
- Project Architecture. Folder Architecture for the Project
- Views
- Url Mapping
- Models and model migrations
- Admin Interface
- Templates -
  - Using External HTML Files with Django.
  - Sending Variables in HTML files
  - Using python code inside HTML files.
- Generic Views
- File uploading
- Form Processing
- Page Redirection
- [Creating an API using Django Rest Framework]

## Projects

- Simple Bank Management
- Library Management System
- Image Processing/Face Detection/Handwriting recognition

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## Contact Details

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