

## Curriculum

# Python Certification Course



## About Us

We are a fast emerging company imparting quality and affordable programs for colleges and individuals for digital economy skills training, internship and guidance focused on helping people develop the skills they need to thrive in the rapidly growing digital economy.

**The IoT Academy** has made a niche name for itself providing rigorous online/offline training in Data Science, Machine Learning, AI, Python, Java, Internet of Things (IoT), Embedded Systems, Big Data, Data analytics, Industrial IoT, Industry 4.0, Digital marketing, Etc. Based in Delhi NCR since 2017 we have helped 150+ professionals, 600+ students and 100+ faculties across the states get trained, acquire certifications, and upskill their employees.

We have an easy and affordable learning solution that is accessible to millions of learners. With our learners spread across countries like the US, India, UK, Canada, Singapore, Australia, Middle East, Brazil, and many others, we have built a community of over 1 million learners across the globe.

## Vision

We aspire to provide learners an edge over the career they choose to stand out amongst today's competitive world through support in training and various academic and industrial collaborations.

## Mission

At IoT Academy We believe that the future is about Unified and Converged technologies as reflected in our mission statement. Every aspect of life will eventually lead in bringing forth a unified world of immense possibilities.

## About the Program

This Python Course by The IoT Academy is designed to give you essence of Python programming in writing Python and work with its various packages . You will learn to build an end-to-end application, test and deploy code, store data, and much more. Learn with best industry experts and in state of the art infrastructure. Join the MAANG/Top product companies with guaranteed placement. Python Certification Course by The IoT Academy is an offline program developed to learn job ready software skills from industry experts. Master your skills in Python to get into one of the many in demand fields like Data Science, Machine Learning, Data Analyst, Business Analyst and many more.





## WEEK 1

Introduction to Data Science

Introduction to Programming

Introduction to Artificial Intelligence and Machine learning

## WEEK 2

Introduction to Python: Installation and Running  
(Jupyter Notebook, .py file from terminal, Google Colab)

Data types and type conversion

Variables and basic operations

Flow control

Loops

Lists, Set and Tuple

## WEEK 3

Dictionary

Functions

Numpy

File Handling

Pandas

## WEEK 4

Data Visualization Library: Matplotlib, Seaborn

Geospatial Data Visualisation

Class and Objects

Error/ Exception Handling

## WEEK 5

Image processing in python (OpenCV)

Tensorflow and Keras

Data building for machine learning tasks

## WEEK 6

Implementation of machine learning model

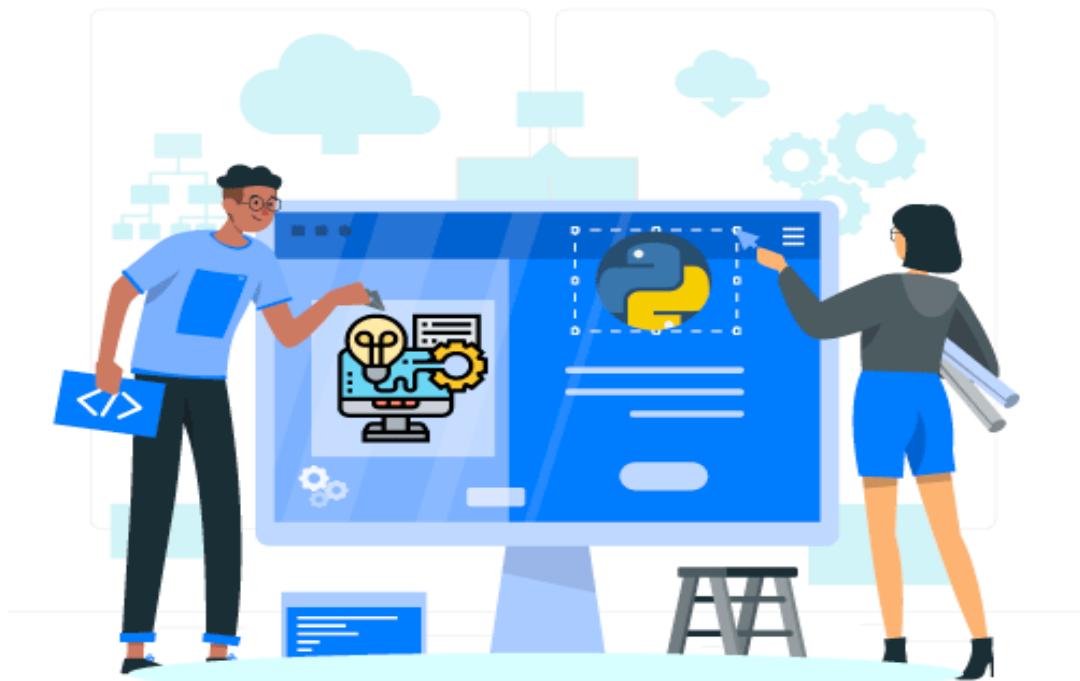
Build first neural network

Transfer learning Introduction

PROJECT:-

Live Machine Learning Project

# Thank You!



## Program Information:

**Python Certification Course**  
**By The IoT Academy**

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