* Python

Programming Basic to Advance concepts

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**Objective**

This course has been designed for the beginners to help them understand the basics to advanced concepts of Python programming language. After completing this tutorial, you will find yourself at a great level of expertise in Python programming, from where you can take yourself to the next levels.

**Course Content (42 Hr)**

* **Introduction** (30 min)
  + Python Overview
  + Why to learn Python
  + Python vs Java
* **Python Environment Setup** (3.5 Hr)
  + Installation
  + Virtual Environment
  + IDE 1 Setup: Pycharm
  + IDE 2 Setup: Jupyter Lab
* **Programming Basics Part I** (4 Hr)
  + Variables & Assignments
  + Basic Datatypes & Operators
  + Conditional and Looping Construct
* **Programming Basics Part II** (10 Hr)
  + Numbers and Strings
  + Data Structures – List, Tuples, Set & Dictionaries
  + Date & Time
  + Functions
  + Modules
  + Exceptions
* **Advance Concepts Part I** (6 Hr)
  + File I/O Operations
  + Classes & Objects
  + Multithreading
* **Advance Concepts Part II** (6 Hr)
  + Working with database – Mysql
  + Working with Xml
  + Working with JSON
* **Data Science Basic** (6 Hr)
  + Introduction to Numpy
  + Introduction to Pandas

**Project Submission (6 Hr)**

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