Python

Programming Basic to Advance concepts
Instructor: Amol A Khandekar
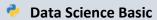
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Objective

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 (35 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 (5 Hr)
- File I/O Operations
- Classes & Objects
- Multithreading

Advance Concepts Part II (5 Hr)
- Working with database – Mysql
- Working with Xml
- Working with JSON

Data Science Basic (5 Hr)
- Introduction to Numpy
- Introduction to Pandas

Project Submission (5Hr)

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