

Python BootCamp

5 Days Course • Instructor Led Training

Course Overview

Python is one of the most in-demand programming languages in the industry. It is favored by companies such as Instagram, YouTube, and Spotify. Python's diversity, adaptability and its elegant, easy-to-master basics set it apart from other programming languages, making it popular for use in web development, machine learning, data science, scientific computation, and cloud infrastructure. This training will go through fundamental python with data manipulation and data science.

Course Outline

Introduction to Python

Lessons:

- Python Basics
- Python Lists
- Functions and Packages

Regular Expressions in Python

Lessons:

- Basic Concepts of String Manipulation
- Formatting Strings
- Regular Expressions for Pattern Matching

Working with Dates and Times in Python

- Dates and Calendars
- Combining Dates and Times
- Time Zones and Daylight Saving

Introduction to Importing Data in Python

Lessons:

- Introduction and flat files
- Importing data from other file types
- Working with relational databases in Python

Python for Spreadsheet Users

Lessons:

- Introduction
- Pivoting in Python
- Plotting Data

Data Manipulation with pandas

Lessons:

- Aggregating DataFrames
- Creating and Visualizing DataFrames

Introduction to Data Science in Python

Lessons:

- Introduction
- Loading Data in pandas
- Plotting Data with Matplotlib

Data Types for Data Science in Python

Lessons:

- Fundamental data types
- Dictionaries - the root of Python
- Handling Dates and Times

Working with Categorical Data in Python

Lessons:

- Introduction to Categorical Data
- Categorical pandas Series
- Visualizing Categorical Data

Intermediate Python

Lessons:

- Matplotlib
- Dictionaries & Pandas
- Case Study