

BUILD AND IMPLEMENT APIS WITH PYTHON

Course Code: 840200

Learn to use Python to both access APIs and to build API sites

Programmatic access to data through Application Programming Interfaces (APIs) is an increasingly important skill for programmers. This course teaches you both how to use Python to access APIs as well as build your own API sites. You'll learn about a variety of data serialization formats, multiple API accessing libraries, and how to build sites that host APIs using both FastAPI and Django.

This course is lab focused and you'll gain hands-on experience working with and building APIs.

What You'll Learn

- Serializing and deserializing in JSON, CSV, YAML, and XML formats
- Scraping data from the web using the Python requests and Beautiful Soup libraries
- Authenticating to API services
- How to interact with REST API services
- SQL and SQLAlchemy for database access
- Speeding up API access through concurrent programming (threading, asyncio, and multi-processing)
- Building FastAPI web sites
- Building Django web sites for APIs

Who Needs to Attend

- Data scientists
- Software developers
- Python enthusiasts

Prerequisites

General Python programming knowledge is required

Python Foundations course or equivalent knowledge



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VIRTUAL CLASSROOM LIVE

\$2,595 CAD

4 Day

Virtual Classroom Live Outline

Fetching Data

- Serializing and deserializing data in JSON, CSV, YAML, and XML
- □ Using the Python requests library

Authenticating to APIs

- ☐ JSON Web Tokens (JWT)

REST Interfaces

- M HTTP Methods

GraphQL

- 🛮 How to fetch data from a GraphQL interface

• SQL

- □ Using SQLite and the sqlite3 command-line interface
- Writing Python SQLAlchemy scripts to access databases using both the text and function interfaces

Concurrent Programming

- Using Python's threading library
- ☐ Using Python's mulit-processing library

FastAPI

- Writing a complete REST interface using GET, POST, PUT, PATCH, and DELETE
- M How to use Pydantic to specify payload serialization

Diango for APIs

- 🛮 Using Django to access a database
- ☐ Using the Django Ninja library to build APIs

Jul 28 - Aug 1, 2025 | 8:30 AM - 4:30 PM EDT

Sep 8 - 11, 2025 | 8:30 AM - 4:30 PM EDT

Jan 26 - 29, 2026 | 8:30 AM - 4:30 PM EST



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PRIVATE GROUP TRAINING

4 Day

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