COURSE SYLLABUS

# Python for AI (Self-Paced)

Create, style, and enhance web apps with AI capabilities. In this advanced Python course, you'll develop a powerful sentiment analysis web application with Flask and the OpenAI API integration and learn how to take your coding projects to the next level with AI.

Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://sdfm.graduateschool.edu/courses/python-ai-course-online




CustomerRelations@graduateschool.edu • (888) 744-4723

## Course Outline

### Introduction to Flask

- Overview of Flask and its use cases
- Setting up a Flask project
- Creating and running your first Flask app

### Building the Web Application

- Designing the HTML structure and creating templates
- Styling the app with CSS
- Creating Flask routes for handling requests and rendering templates

### Integrating the OpenAI API

- Setting up the OpenAI API and acquiring an API key
- Making API calls to perform sentiment analysis
- Parsing and displaying the API's results in your web app

### Handling User Input

- Building forms in HTML to capture user input
- Processing form submissions in Flask
- Displaying dynamic content based on user input

### Error Handling & Debugging

- Implementing error handling to catch and manage potential issues
- Debugging common errors and understanding Flask's error messages

### Deploying & Testing

- Running the Flask app locally and testing its functionality
- Reviewing the complete workflow of submitting a comment and receiving sentiment analysis results