COURSE SYLLABUS

Python for AI Course Online

Build, design, and enhance web apps with AI features in this advanced Python course. You'll create a robust sentiment analysis web application using Flask and integrate the OpenAI API, all while learning how to elevate your coding projects with AI-powered functionality.

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



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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