Application Development with AI (AppDev AI)

COURSE OVERVIEW

This three-day course provides a comprehensive guide to developing custom GPTs for AI Assisted Application Development. Attendees will leave with a clear understanding of prompting techniques for Application development, building/configuring a custom GPT, and end-to-end application development with AI Assistance.

With over 39 labs and lectures, this course is designed to be a hands-on intensive primer for anyone who needs to develop applications with AI Assistance.

Direct access to the AI Platform is not required. All traffic to and from AI Platforms is provided through the training provider. Open AI Plus Subscription REQUIRED. All covered content makes use of ChatGPT Premium features.

- Access the classroom from anywhere via browser and internet.
- Obtain hands-on experience with the most widely used, industry-standard software, tools, and frameworks.
- Learn to develop your own AI Application Development Assistant with Custom GPTs.
- Develop an application from start to finish, using a Custom GPT.

WHO WILL BENEFIT FROM THIS COURSE?

- Application Developers
- Project Managers
- System Engineers
- Management
- Prompt Engineers
- Staff Responsible for integrating Gen AI into project Workflows

PREREQUISITES

- Previous exposure to any programming language, preferably Python
- Experience writing prompts, or previous prompt engineering training/experience helpful, but not required

COURSE OBJECTIVES

- Introduction to AI Assisted Application Development
- Understand Large Language Models and how to Prompt them
- Defining Prompts, and Prompt Parameters
- Deploy Advanced Prompting Techniques to maximize results
- Build and Configure a Custom GPT

- Develop Instructions for a Custom GPT
- Fine-Tune a Custom GPT
- Learn Complex Programming Concepts with AI Assistance
- Plan/Scope out a Project with AI Assistance
- Develop and Write Code with AI Assistance
- Deploy an Application with AI Assistance
- Develop an application from start to finish with AI Assistance

COURSE OUTLINE

Prompt Engineering
- Lecture: Large Language Models
- Lecture: Writing Prompts for LLMs
- Lecture + Lab: Prompting an AI Model
- Lecture + Lab: Define Prompt Parameters: Task/Inputs/Outputs/Constraints/Style
- Lecture + Lab: Prompt Techniques: Chaining, Set Role, Feedback, Examples

Build your own AI Application Development Assistant
- Lecture: Build a Custom GPTs
- Lecture + Lab: Develop Instructions for Custom GPT
- Lecture + Lab: Fine Tune a Custom GPT
- Lecture + Lab: Deploy a Custom GPT
- Lecture + Lab: Update a Custom GPT
- Challenge: Class Project: Build your own GPT Powered AI Application Development Assistant

Class Project
- Challenge: Class Project: Build and Deploy an Application with your own GPT

Learn Programming Concepts with AI
- Lecture: Strategies for Learning with AI
- Lecture + Lab: Describe Complex Code Blocks
- Lecture + Lab: Ask the Code - Plugin Tools

Plan and Scope Application
- Lecture: Getting Started with AI
- Lecture + Lab: Build your Application Plan
- Challenge: Class Project: Scope out your Project /w AI

Code Interpreter (CI)
- Lecture: ChatGPT 4 Code Interpreter (CI)
- Lecture: Prompt Strategies to Generate Code
- Lecture + Lab: Generate Code using ChatGPT CI
- Lecture: Executing Code
- Lecture + Lab: Execute Code using ChatGPT CI
- Lecture: Programming Assistance
- Lecture + Lab: Debugging Code using ChatGPT CI
- Challenge: Class Project: Build/Develop your Project /w ChatGPT CI

Containerization and Microservices

- Lecture: Microservices Overview
- Lecture + Lab: Strangle a Monolithic Application /w AI
- Lecture + Lab: AI Assisted Docker Image Creation
- Lecture + Lab: Deploy an Application using Docker Compose and AI
- Lecture + Lab: Deploy an Application in Kubernetes /w AI
- Challenge: Class Project: Deploy your Application using AI Assistance

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Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their technology Investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

Premiere World Class Instruction Team
- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience
- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

Enhanced Learning Experience
- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

Convenient and Reliable Training Experience
- You have the option to attend classes live with the instructor, at any of our established training facilities, or from the convenience of your home or office
- All Sunset Learning Institute classes are guaranteed to run – you can count on us to deliver the training you need when you need it!

Outstanding Customer Service
- You will work with a dedicated account manager to suggest the optimal learning path for you and/or your team
- An enthusiastic student services team is available to answer any questions and ensure a quality training experience

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