



The OpenAI API

Prerequisites

This seminar was developed for software developers who already have some experience with the Python programming language.

Duration

This seminar includes eight academic hours.

Premium Training

This seminar can be delivered either in Hebrew or in English. It can be delivered either online, or in a Hybrid way that allows the participants to choose whether to attend the meeting room where the training takes place or to join online.

The Lecturer

This seminar is delivered by [Haim Michael](#), an experienced, well-known software development trainer with more than 25 years of experience in software development training and more than 15 years of experience in Python.

The Topics

This seminar focuses on the Open AI API. In this seminar, you will learn how to add AI capabilities to your software application using the OpenAI API. This seminar includes the following topics:

Introduction to AI

Open AI Platform Overview

Jump Start with Open AI

Setting Up Python

The OpenAI Library

The API Key

Sending API Request [Lab Coding Exercise]

Image Generating

The DALL E 2 and DALL E 3 Models

Creating Images from Scratch [Lab Coding Exercise]

Text to Speech

The Audio Quality

Video Options

Supported Audio Formats

Supported Languages [Lab Coding Exercise]

Speech to Text

The whisper-1 Model

Transcriptions and Translations [Lab Coding Exercise]

Supported Languages

The prompt Parameter

The PyDub Library

Embeddings

What is Embedding?

Common Use Cases [Lab Coding Exercise]

Moderation

What is Moderation?

Moderation Categories

Moderation Use Cases [Lab Coding Exercise]

Completion

What is Completion?

The prompt Text [Lab Coding Exercise]

Chat Completion

What is Chat Completion?

The message Parameter

The Message Roles

Response Format [Lab Coding Exercise]

Assistants

Creating The Assistant

The Thread

Adding Messages to Thread

Creating a Run [Lab Coding Exercise]

Prompt Engineering

What is Prompt Engineering?

Strategies for Better Results

Prompt Examples