

ALBANY STATE UNIVERSITY, GA

# AI/ML LITERACY AND TRAINING ML MODELS USING WEB BROWSERS

## CHAPTER ONE – INSTALLATION

BY

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<https://www.backupspirit.com/camp>

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# CHAPTER ONE — SETUP YOUR COMPUTER

We will install several software packages in order to develop webpage using AI. We will first install Visual Studio for Coding (VSC) and GIT. Our camp activities will be programmed inside VSC. After installing VSC, we will need to create two accounts, one with POE.com and the other with OpenAI.com. The good news is that both accounts can be done by having a Gmail account. Please follow the steps below

## Section 1.1. Install GIT and Visual Studio for Coding

The combination of GIT and Visual Studio for Coding becomes the dominating platform for software development. Please follow the steps below for how to install them. If your computer has installed them already, you can skip this section.

### Step 1: Install GIT

GIT stands for Global Information Tracker. It is one of the great inventions in software development. It was invented by the same person, Linus Torvalds, who also invented the Linux operating system. The major functionality of GIT is to monitor collaboration and contribution all team members for a software development. As a professional software engineer, one must get familiar with GIT.

Git is a hub that hosts millions of software packages. Many refer to those packages for job-related tasks, or for research (such as me). To become a professional in computer science in general, you should have a GitHub account. Employers nowadays would like to see repositories hosted in your GitHub account. We will show how to set up a GitHub account later.

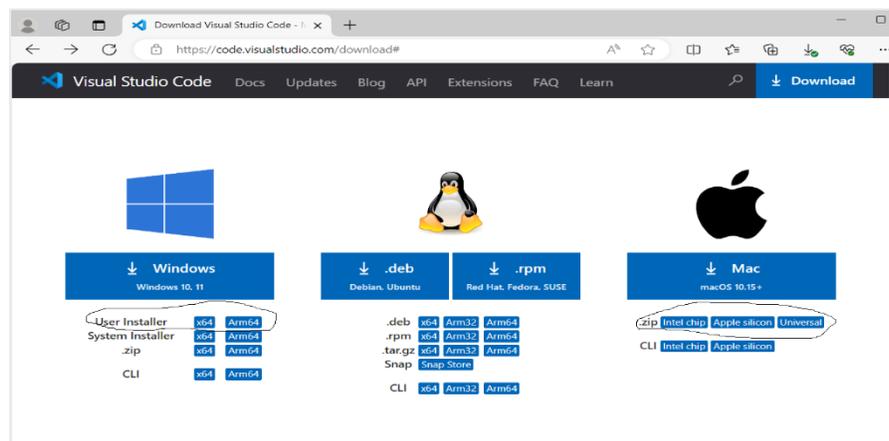
Please click <https://git-scm.com/downloads> to download the GIT.



## Step 2: Install Visual Studio for Coding

If you are using Windows operating system, please click this link  
<https://code.visualstudio.com/docs/?dv=win64user&build=insiders>

If you have a MacBook, please use this link  
<https://code.visualstudio.com/download#> and choose Mac (zip file)



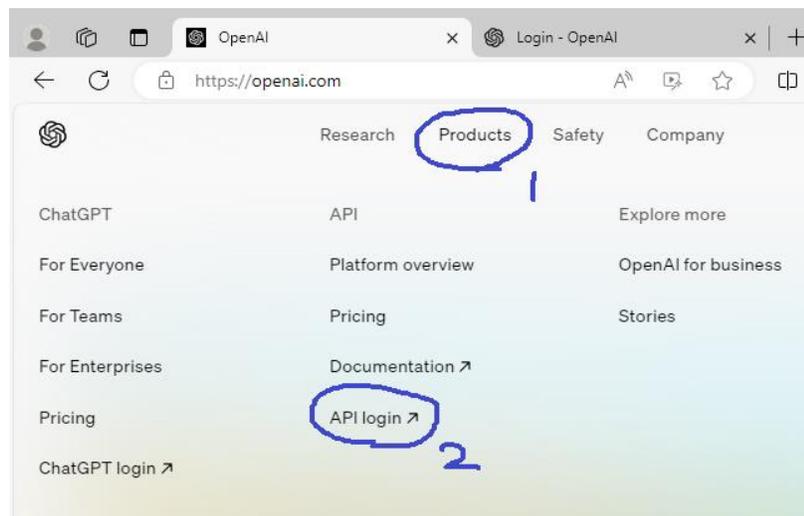
## Section 1.2 Add AI extension to Visual Studio for Coding

Finally, we will need the AI chatbot to help us. To do so, we will need an OpenAI account, and then install some extensions for Visual Studio for coding.

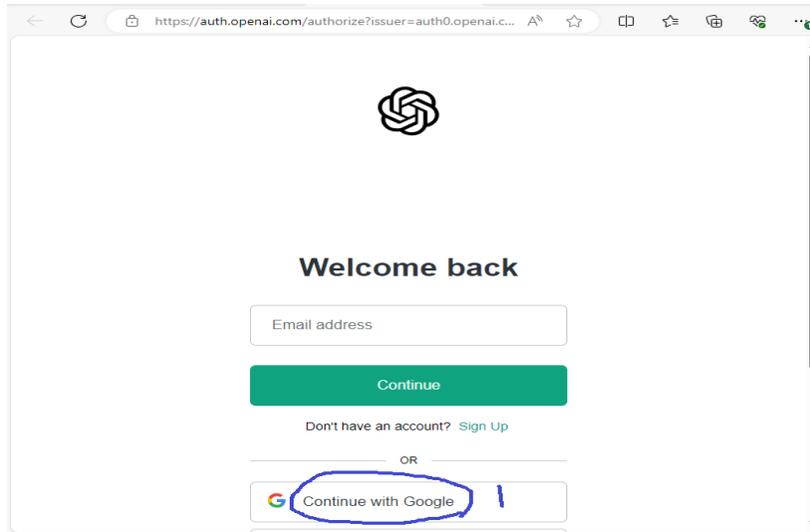
### Step 1: Create an account with OpenAI.

We will need an OpenAI API key for our camp. The key is used to uniquely identify you as an individual and the job you are doing. In that way, the AI can learn from you and your job so that it can provide better support.

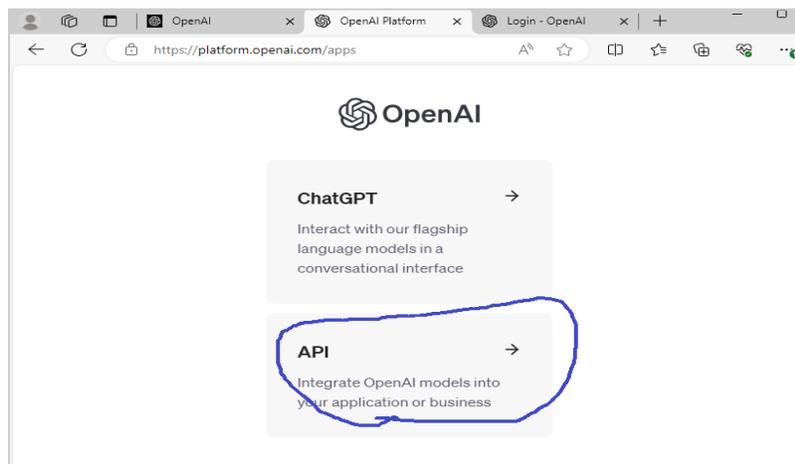
To start, please visit <https://openai.com>. Then, follow the steps circled in Blue color on the following screenshot



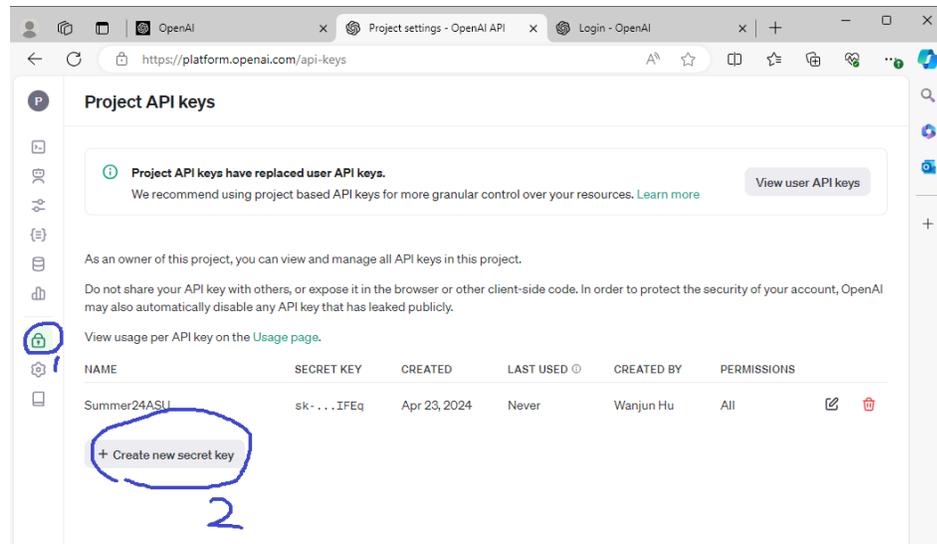
After that, please follow the step circled in Blue color on the following screenshot



Then, click on API as circled below.



Then, follow steps circled in Blue color on the following screenshot.



The API key is automatically created. It is really long!

## Step 2: Install extensions

We will install some extensions too. In particular, we need to install the following extensions:

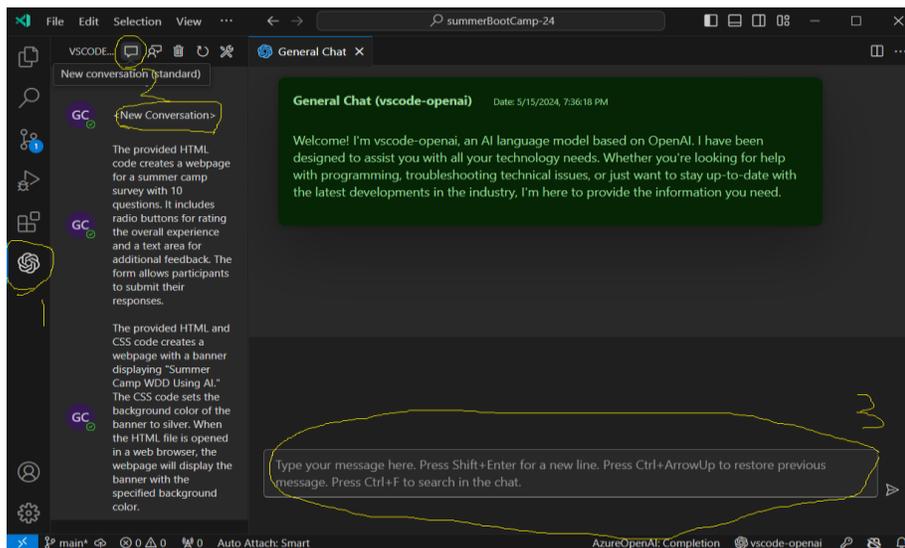
1. Microsoft IntelliCode (replacing intelliSense).
2. Semantic Kernel Tools
3. TensorFlow Snippets
4. Vscode-openai (we will discuss this in next step)

## Section 1.3 Using the AI chatbot to develop webpage

You are ready to use AI to develop your webpage now.

### Step 1: The chatbot

On screenshot below, please follow the steps (1), (2), (3) circled in yellow color. Step (1) is to locate the Vscodex-OpenAI extension icon. Click it. Then, navigate to (2) and click it. Then a chatbot is created. Locate (3) and start chat with chatGPT to create your webpage.



You can try this prompt first.

Prompt: Create a webpage that contains a banner showing "Summer Camp WDD Using AI"

AI:

## General Chat (vscode-openai)

Date: 4/23/2024, 12:11:32 PM



To create a webpage with a banner showing "Summer Camp WDD Using AI," you can use the following HTML and CSS code:

HTML:

Copy Open

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <link rel="stylesheet" href="styles.css">
  <title>Summer Camp WDD Using AI</title>
</head>
<body>
  <div class="banner">
    <h1>Summer Camp WDD Using AI</h1>
  </div>
</body>
</html>
```

CSS (styles.css):

Copy Open

```
body {
  margin: 0;
  padding: 0;
  font-family: Arial, sans-serif;
}

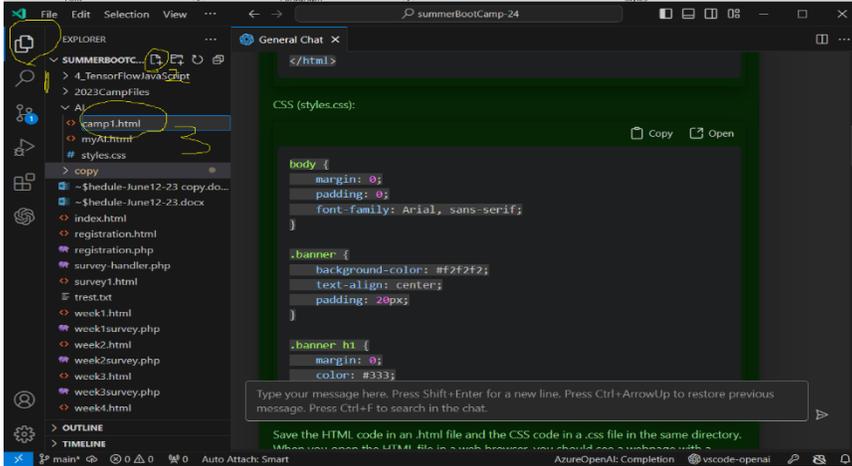
.banner {
  background-color: #f2f2f2;
  text-align: center;
  padding: 20px;
}

.banner h1 {
  margin: 0;
  color: #333;
}
```

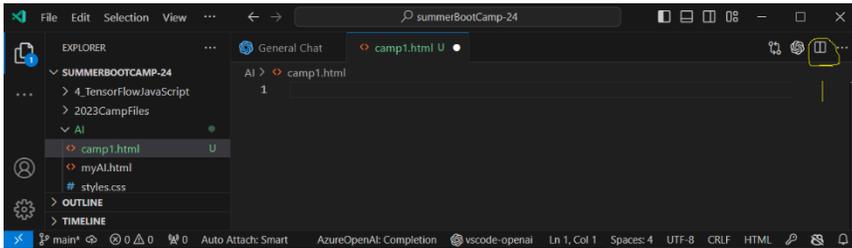
Save the HTML code in an .html file and the CSS code in a .css file in the same directory. When you open the HTML file in a web browser, you should see a webpage with a banner displaying "Summer Camp WDD Using AI."

## Step 2. Create files as instructed by AI

Now, follow what AI says to create one HTML file with a name “camp1.html” and one CSS file with the name “styles.css”.



Split the screen.



Copy the code to camp1.h

