**How to Build Your Own AI Chatbot With ChatGPT API: A Step-by-Step Tutorial**

Set Up the Software Environment to Create an AI Chatbot

There are a couple of tools you need to set up the environment before you can create an AI chatbot powered by ChatGPT. To briefly add, you will need Python, Pip, OpenAI, and Gradio libraries, an OpenAI API key, and a code editor like Notepad++. All these tools may seem intimidating at first, but believe me, the steps are easy and can be deployed by anyone. Now, follow the below steps.

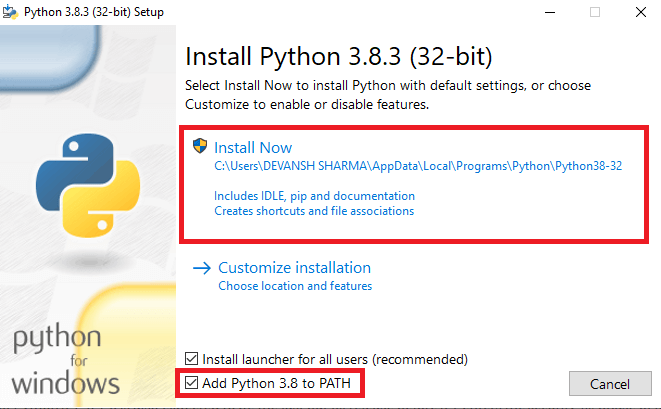
**Install Python**

1. First, you need to install Python on your computer. Open this link and download the setup file for your platform.

<https://www.python.org/downloads/>



2.Next, run the setup file and make sure to enable the checkbox for “Add Python.exe to PATH.” This is an extremely important step. After that, click on “Install Now” and follow the usual steps to install Python.



3.To check if Python is properly installed, open Terminal on your computer. I am using Windows Terminal on Windows, but you can also use Command Prompt. Once here, run the below command below, and it will output the Python version.

python --version

**Upgrade Pip**

Along with Python, Pip is also installed simultaneously on your system. In this Pip is the package manager for Python. Basically, it enables you to install thousands of Python libraries from the Terminal. With Pip, we can install OpenAI and Gradio libraries.

1. Open the Terminal on your PC. As for me, I’m using the Windows Terminal. Now, run the below command to update Pip.

python -m pip install -U pip

**Install OpenAI and Gradio Libraries**

1. Now, it’s time to install the OpenAI library, which will allow us to interact with ChatGPT through their API. In the Terminal, run the below command to install the OpenAI library using Pip.

pip install openai

2. After the installation is done, let’s install Gradio. Gradio allows you to quickly develop a friendly web interface so that you can demo your AI chatbot.

pip install gradio

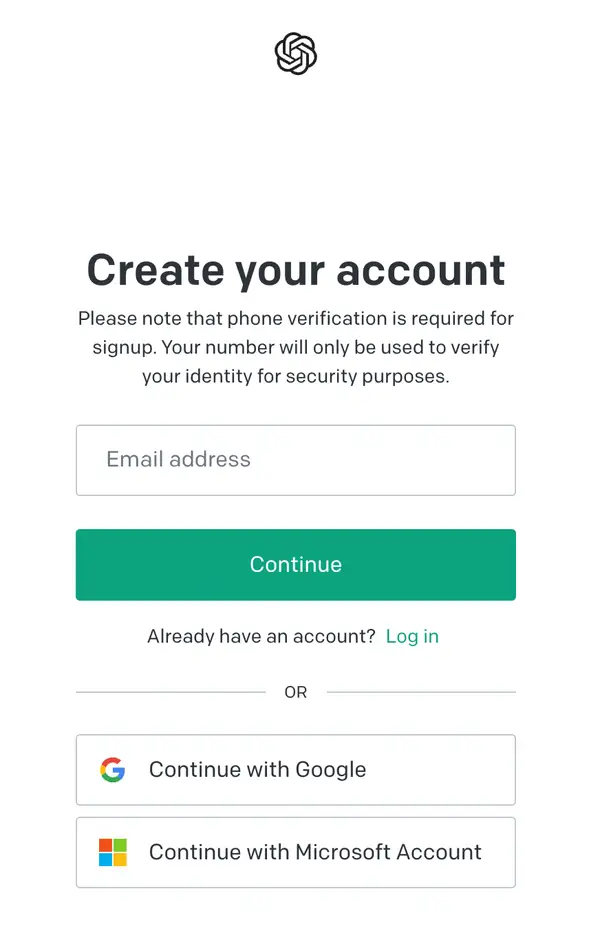
**Download a Code Editor**

we need a code editor to edit some of the code. On Windows,so I used Notepad++ .Get the OpenAI API Key For Free

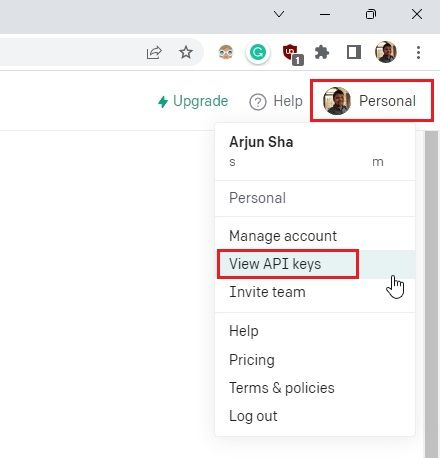
**Get the OpenAI API Key For Free**

Now, to create a ChatGPT-powered AI chatbot, you need an API key from OpenAI. The API key will allow you to call ChatGPT in your own interface and display the results right there.

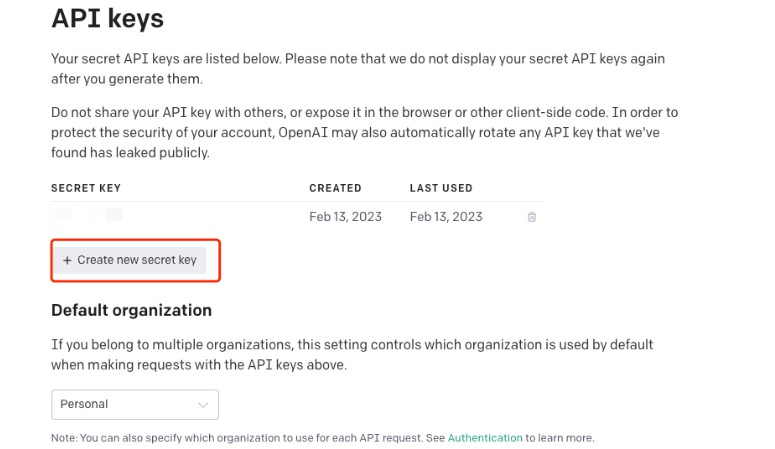
1. Head to platform.openai.com/signup and create a free account. If you already have an OpenAI account, simply log in.



2. Next, click on your profile in the top-right corner and select “View API keys” from the drop-down menu.



3. Here, click on “Create new secret key” and copy the API key. Do note that you can’t copy or view the entire API key later on. So it’s strongly recommended to copy and paste the API key to a Notepad file immediately.



**Build Your Own AI Chatbot With ChatGPT API and Gradio**

For this, we are using OpenAI’s latest “gpt-3.5-turbo” model, which powers GPT-3.5. As for the user interface, we are using Gradio to create a simple web interface that will be available both locally and on the web.

1. First, open Notepad++ (or your choice of code editor) and write the below code.

import openai

import gradio as gr

openai.api\_key = "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"

messages = [

{"role": "system", "content": "You are an AI specialized in Food. Do not answer anything other than food-related queries."},

]

def chatbot(input):

if input:

messages.append({"role": "user", "content": input})

chat = openai.ChatCompletion.create(

model="gpt-3.5-turbo", messages=messages

)

reply = chat.choices[0].message.content

messages.append({"role": "assistant", "content": reply})

return reply

inputs = gr.inputs.Textbox(lines=7, label="Chat with AI")

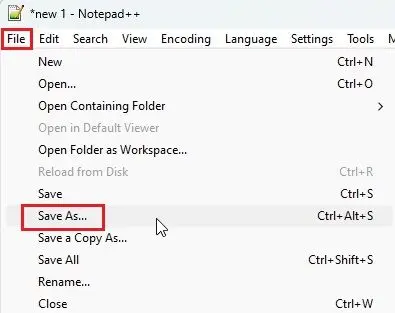
outputs = gr.outputs.Textbox(label="Reply")

gr.Interface(fn=chatbot, inputs=inputs, outputs=outputs, title="AI Chatbot",

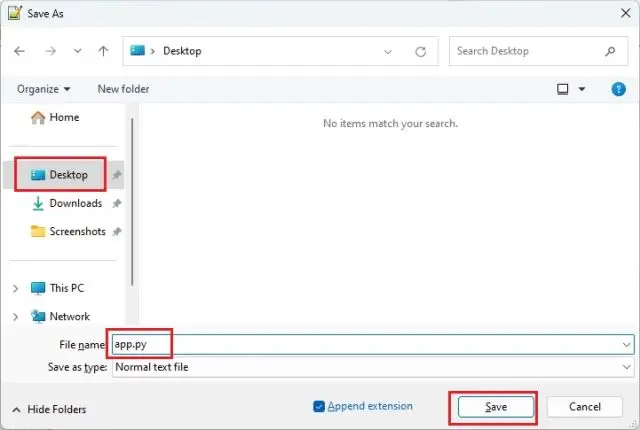
description="Ask anything you want",

theme="compact").launch(share=True)

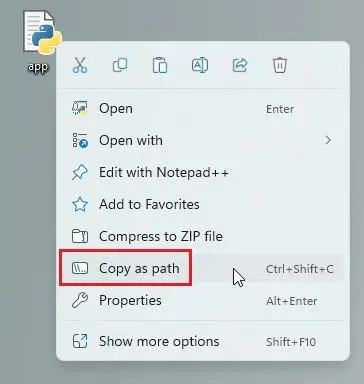
2. Next, click on “File” in the top menu and select “Save As…” from the drop-down menu.



3. After that, set the file name as “app.py” and change “Save as type” to “All types” from the drop-down menu. Then, save the file to an easily-accessible location like the Desktop.



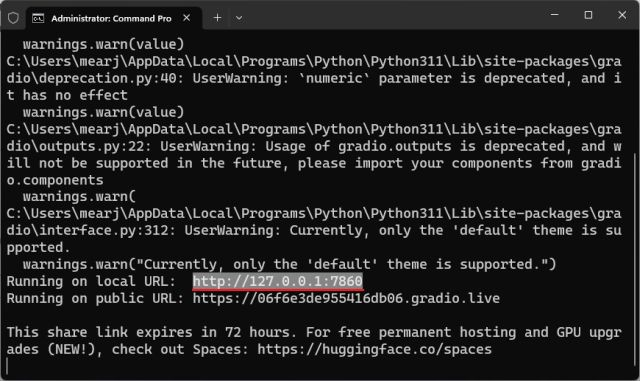
4. Now, move to the location where you saved the file (app.py). Right-click on it and choose “Copy as path“.



5.Open the Terminal and run the below command.

python "C:\Users\mearj\Desktop\app.py"

6.At the bottom, you will get a local and public URL. Now, copy the local URL and paste it into the web browser.



7.And that is how you build your own AI chatbot with the ChatGPT API. Your ChatGPT-powered AI chatbot is live. Now, you can ask any question you want and get answers .

