

The Python logo, consisting of two interlocking snakes, one blue and one yellow, is centered in the background. Overlaid on the logo is a light gray rounded rectangle containing the title text.

Building Applications Powered by AI using APIs

Session 8 (Last Session)

Session Time Line

Course Credentials

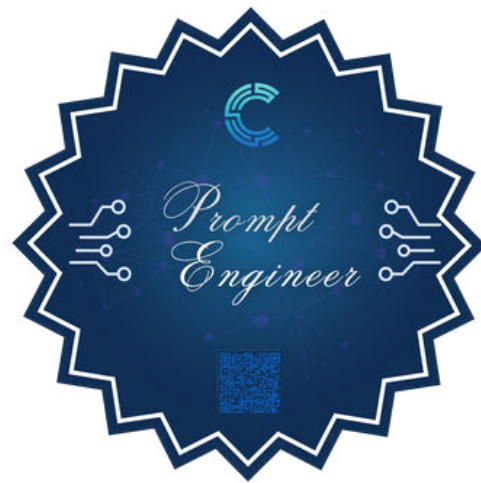
Coding programs powered by AI

Final Session Photo

Course Credentials

1- Badges

Each module has a badge



4 modules -- 4 badges

2- Course Completion Certificate



Requires finishing **5** projects **out of the 8**

3- Distinguished Achievement Certificate



Given for who finishes **7 projects** or more out of the **8**

*You will join a whatsapp group for sharing further resources and updates of AI
Posts on our groups of your achievements*



Priority access for any future courses from the CS club
Access future group of all distinguished members from different tracks



It is never so late to do it

Final projects deadline

Wednesday

6 / 9

All the projects we have so far

Session no	Tools	Projects
1	Teachable machine	Creating your own machine learning model
2	Bing AI / ChatGPT / POE	Create a mini book of anything you want Create set of instructions prompt to make chatGPT behave in a certain way and upload it
3	Lexica / Firefly / Leonardo AI	Create your own art style images and upload them in your drive
4	Tensor art / Quick QR code art	Create and discover the features and models in tensor art. Create your own qr code art
5	elevenlabs - D-ID - Google colab notebook Adobe Express animation - Clone voices with RVC or convert voices	Create your own talking character / animation with AI and upload it
6	Pabbly Automation	Create your own automation workflow or apply session projects and upload the link of your workflow

All the projects we have so far

7	<p>All python fundamentals recorded session</p> <p>https://drive.google.com/drive/folders/1t-NpUysBaG72zEFoAEKmtPZLxT-wQ4uf?usp=drive_link</p>	<p>Just fill this form</p> <p>https://forms.gle/xDoAddtYJcN1YURg7</p>
8	<p>ChatGPT API,</p>	<p>Build your own AI integrated program</p>

What is an API



What is an API

Telling chef the order



What is an API

Telling chef the order



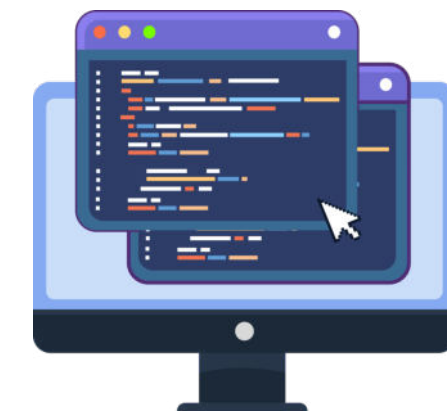
So. What is an API?

Application Programming Interface help you connect your code with a third party application to operate a certain task and send it back.



With ChatGPT API, we can use ChatGPT in our code to interact with user

Cooking program that takes ingredients from the user and tell him possible recipes

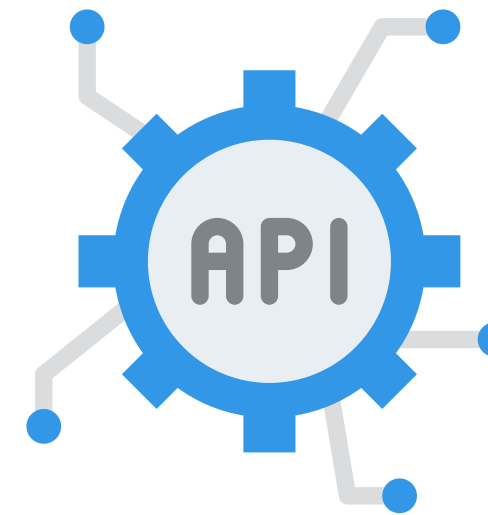


What will we need?



Creating a ChatGPT account

I will upload a video of this step
and send it in the group



Get your API key from your
account



Steps to start using the API

Install openAI library

`pip install openai`

importing openai library and
enter your API key

```
import openai  
openai.api_key = "sk-" # Enter your key here
```

Steps to start using the API

**Let's Explain the following
function to generate text**

```
def BasicGeneration(userPrompt):  
    completion = openai.ChatCompletion.create(  
        model="gpt-3.5-turbo",  
        max_tokens = 200,      # max number of words output 1K tokens = 750 words  
        messages=[  
            {"role": "assistant", "content": userPrompt}]  
    )  
    return completion.choices[0].message.content
```

Dynamic prompt

We want our prompt to be modified based on the user inputs.

For example

- Based on the ingredients he provides, we will make ChatGPT generates recipes
- Based on specific book name, ChatGPT will gets you main quotes from it.
- Or based on user input text, ChatGPT will automatically correct English and grammar mistakes...

Unlimited Things you can do ... just open your creativity

Remember...
Before submitting your project
remove your api keys and leave it
empty

Try to guess!
how much % of course content
changed to make it up to date with
recent developments

Great collected Youtube channels to keep
yourself updated with AI

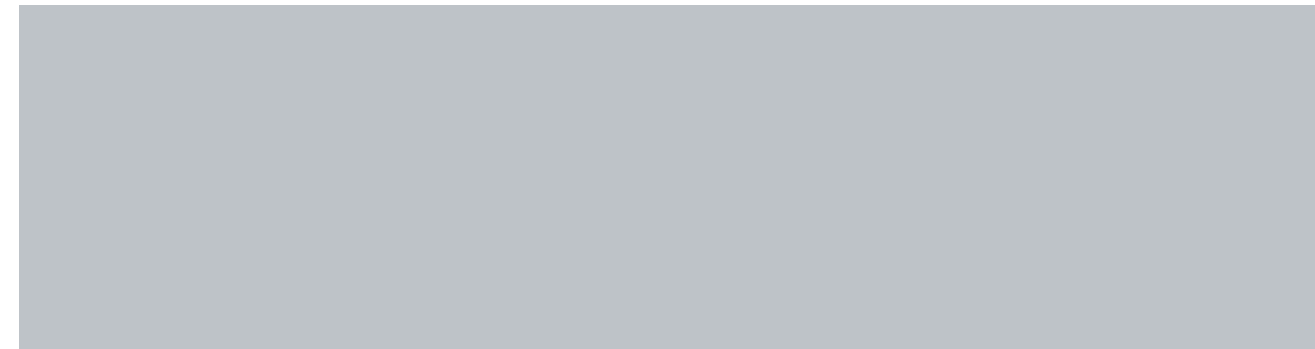


Photo Time!

