

OPENAI

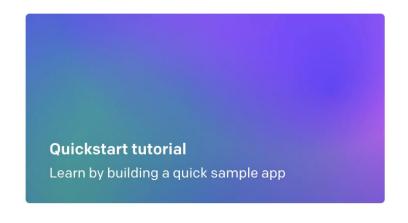
OPENAI IS AN AI RESEARCH AND DEPLOYMENT COMPANY IN THE FIELD OF ARTIFICIAL GENERAL INTELLIGENCE (AGI)—CREATING HIGHLY AUTONOMOUS SYSTEMS THAT OUTPERFORM HUMANS AT MOST ECONOMICALLY VALUABLE WORK.

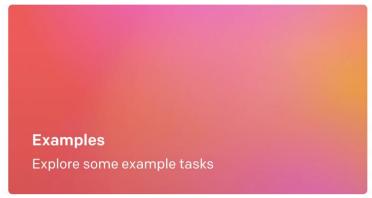


Link: https://beta.openai.com/overview

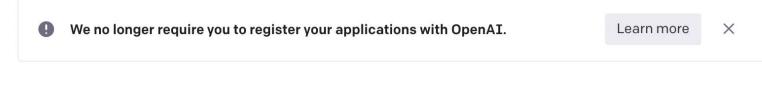
OPENAL APPS

Start with the basics

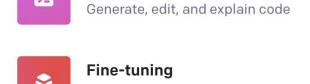




Build an application

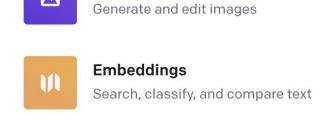






Code completion Limited beta

Train a model for your use case



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Image generation Beta

Link: https://beta.openai.com/overview

TEXT COMPLETION & MANIPULATION

COMPLETION:

"WRITE A TAGLINE FOR AN ICE CREAM SHOP."

"WE SERVE UP SMILES WITH EVERY SCOOP!"

CLASSIFICATION

CLASSIFY WHETHER A TWEET'S SENTIMENT IS POSITIVE, NEUTRAL, OR NEGATIVE.

- 1. "I CAN'T STAND HOMEWORK"
- 2. "THIS SUCKS. I'M BORED ∰"
- 3. "I CAN'T WAIT FOR HALLOWEEN!!!"
- 4. "MY CAT IS ADORABLE 💜 🖤 "
- 5. "I HATE CHOCOLATE"

GENERATION - ONE OF THE MOST POWERFUL TASKS IS GENERATING NEW IDEAS OR VERSIONS OF INPUT TEXT.

- 1. VIRTUAL REALITY GROUP FITNESS CLASSES
- 2. VR-ENABLED PERSONAL TRAINER SESSIONS
- 3. FITNESS VIDEO GAMES WITH VIRTUAL REALITY IMMERSION

Link: https://openai.com/blog/

CHAT GPT

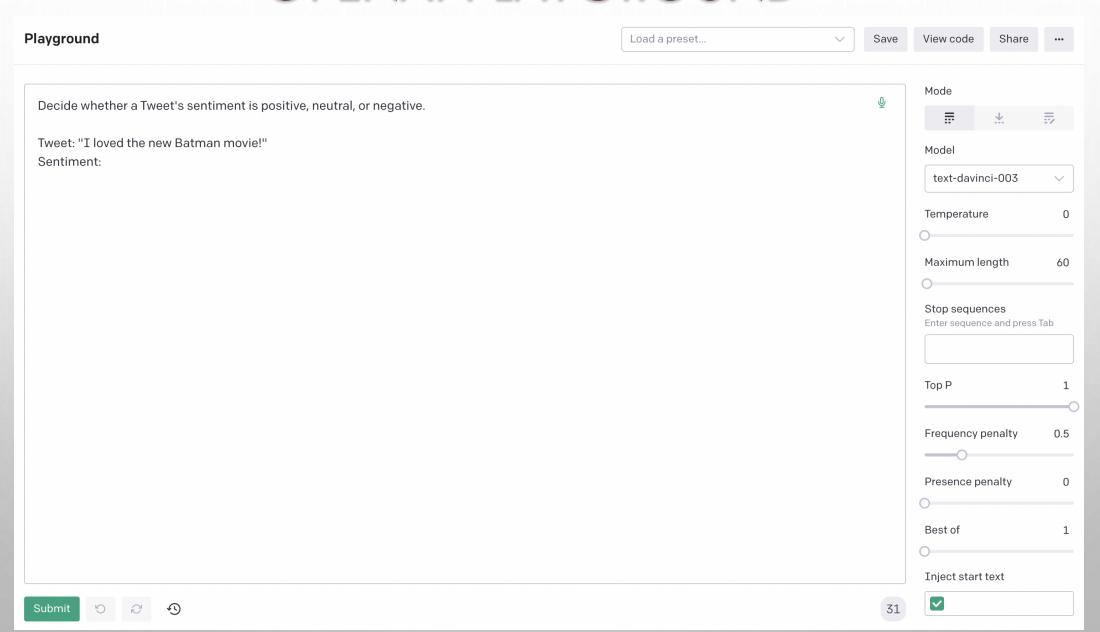
ChatGPT: Optimizing Language Models for Dialogue

We've trained a model called ChatGPT which interacts in a conversational way. The dialogue format makes it possible for ChatGPT to answer followup questions, admit its mistakes, challenge incorrect premises, and reject inappropriate requests. ChatGPT is a sibling model to InstructGPT, which is trained to follow an instruction in a prompt and provide a detailed response.



Link: https://beta.openai.com/playground/p/default-tweet-classifier

OPENAI PLAYGROUND





What is the GPT-3 API?

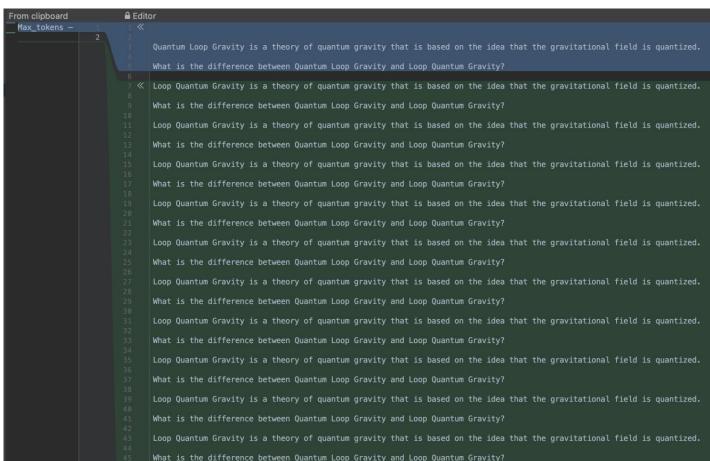
- The GPT-3 API is a machine learning platform that enables developers to train and deploy large language AI models.
- It provides a simple, yet powerful, way to build and customize models for any purpose.
- The GPT-3 API is also easy to use, making it accessible to anyone with basic coding skills.
- Integrating GPT-3 API and Python you can create extremely powerful sophisticated software applications.
- Wrapping the Python code into an open-source app framework such as Streamlit helps create interactive web apps in a short time.

GPT3 Integration with Python

Requirements: Have an OpenAI account with an API key. Then install the OpenAI API (pip install openai)

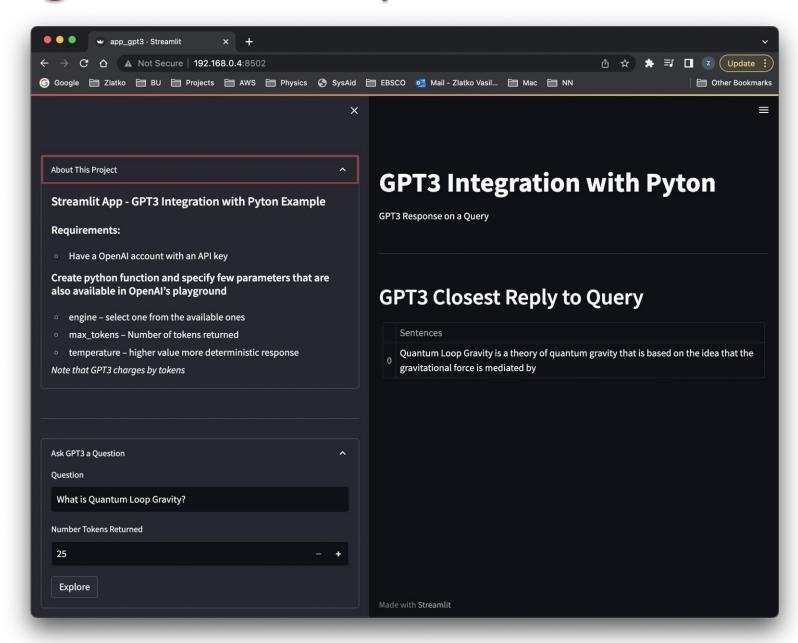
- Create python function and specify few parameters that are also available in OpenAI's playground
 - Engine select one from the available ones
 - Max_tokens Number of tokens returned (GPT3 charges by tokens)
 - Temperature higher value more deterministic response

```
GPT3 Integration with Pyton Example
import openai
def gpt3(query, my key):
    openai.api key = my key
    response = openai.Completion.create(
        engine="davinci-instruct-beta",
        prompt=query,
        temperature=0.1,
        max tokens=1000,
        top p=1,
        frequency penalty=0,
        presence penalty=0
    content = response.choices[0].text.split(".")
    print(content)
    return response.choices[0].text
```



GPT3 Integration with Python as Streamlit App

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The Code

- 1. GPT3 code
- 2. Streamlit Sidebar
- 3. Main Panel with the returned result

```
def gpt3(query, num_tokens, my_key):
            temperature=0.1,
max_tokens=num_toker
            - engine - select one from the available ones
- max_tokens - Number of tokens2returned
- temperature - higher value more deterministic response
             query = st.text_input("Question", "What is Quantum Loop Gravity?")
num_tokens = st.number_input('Number Tokens Returned', 25)
st.markdown(''''
      GPT3 Response on a Query
      with st.spinner('Wait for response3 ..');
   response = gpt3(query, num_tokens, my_key)
             result = []; cc = 0
```



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