MY Tiny AI-Powered App Journey

Part 1: AI Q&A Bot

I have created github repository

# tiny-ai-qa-bot

1.Project goal

2.Steps to run

3.Example input/output

4.Documentation

I documented each step in a pdf file describing what wored and what dibn't.

Part 2: Task-AI Q&A Bot

1.This is a command-line app where the user types a question, and the bot gibves an AI-generated answer.

\*CODE

python

#tiy\_ai\_qa\_bot.py

import openai

#Replace this with your own API key

openai.api\_key="YOUR\_API\_KEY"

print("Welcome to AI Q&A Bot! Type 'exit' to quit.")

while True:

question=input("You: ")

if question.lower()=="exit":

break

try:

response=openai.ChatCompletion.create(

model="gpt-3.5-turbo",

messages=[{"role":"user","content":question}]

)

print("AI:",

response.choices[0].message["content"].strip())

except Exception as e:

print("Error:", e)

Example Output

Welcome to AI Q&A Bot! Type 'exit' to quit.

You: What is AI?

AI: AI (Artifitial Intelligence) is a field of computer science focused on creating systems that can perform tasks that typically require a human intelligence, such as resoning, learning, and understanding language.

Yoy: Who is the father of AI?

AI: John McCarthy is widely considered the father of Artifitial Intelligence.

You: exit

Part 3: Strech Goal

I created a simple web UI using Streamlit.

streamlit code(app.py)

import streamlit as st

import openai

openai.api\_key = "YOUR\_API\_KEY"

st.title("

Tiny AI Q&A Bot")

question = st.text\_input("Ask me anything:")

if st.button("Get Answer"):

if question:

response = openai.ChatCompletion.create(

model="gpt-3.5-turbo",

messages=[{"role": "user", "content": question}]

)

st.write(response.choices[0].message["content"].strip())

Run it locally using:

streamlit run app.py

You’ll get a small webpage where you can type your question and get an AI response.

1)Document summary

Challenges faced:

-API key setup

-Understanding JSON response format

Solutions:

-Used OpenAI's documentation and ChatGPT to debug

Used Google/ChatGPT

-Yes, for setup help and debugging

Went beyond minimum

-Added UI version and clean README.

Note:

see readme for step-by-step documentation of my journey, including setup attempts, errors, and how I sloved them.

Reflection:

This project help me understand how AI works in real-world apps.

Even though it was a samll task, I explored how to buid, debug, and improve working prototype.

It made me confident in trying bigger AI projects in the future.

This project improved my confidence in integrating AI tools and understanding how APIs work.

I face some challenges(like API key errors and Streamlit setup), but sloving them helped me grow in confidence and technical understanding.

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