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import streamlit as st
import openai
import re
import json

# Set your OpenAI API key here
openai.api_key = "YOUR_OPENAI_API_KEY"

def analyze_intent_and_discordance(text):
    prompt = f"""
You are an assistant that analyzes the user's text.
Please provide a JSON response with two scores between 0.0 and 1.0:
- "intent_score": How clear and strong is the user's intent (1.0 is very clear).
- "discordance": How contradictory or uncertain the user's message is (0.0 is no contradiction).

Analyze this text:
\"\"\"{text}\"\"\"

Respond ONLY with a JSON like:
{
  "intent_score": 0.85,
  "discordance": 0.1
}
"""

    response = openai.ChatCompletion.create(
        model="gpt-4o-mini",
        messages=[
            {"role": "system", "content": "You analyze user intent and discordance in text."},
            {"role": "user", "content": prompt}
        ],
        temperature=0,
        max_tokens=100,
    )
    content = response.choices[0].message.content.strip()

    try:
        data = json.loads(content)
        intent_score = float(data.get("intent_score", 0))
        discordance = float(data.get("discordance", 1))
        return intent_score, discordance
    except Exception as e:
        st.error(f"Error parsing GPT response: {e}")
        st.write("Raw GPT response:", content)
        return 0.0, 1.0

def main():
    st.title("Quantum Consent Engine with GPT Analysis")
    st.write("Enter your text and the system will analyze intent and discordance.")

    user_input = st.text_area("Enter your text here", height=150)

    if st.button("Analyze Intent and Discordance"):
        if not user_input.strip():
            st.warning("Please enter some text first.")
            return

        with st.spinner("Analyzing..."):
            intent_score, discordance = analyze_intent_and_discordance(user_input)

        st.success("Analysis complete")
        st.write(f"***Intent Score:** {intent_score:.2f} (High = Clear intent)")
        st.write(f"***Discordance:** {discordance:.2f} (Low = Good consistency)")

        intent_threshold = 0.7
        discordance_threshold = 0.3

        if intent_score >= intent_threshold and discordance <= discordance_threshold:
            st.write("You passed the intent and consistency thresholds!")

```