Model Integration

Step 1: Install the OpenAl library

Make sure you have installed the OpenAI library by running the following command in your terminal:

pip install openai

Step 2: Import the OpenAl library

Add the following line to the top of your Flask project file (app.py):

python

from openai import OpenAl

Step 3: Set your OpenAl API key

Add the following line to set your OpenAI API key:

python

OpenAl.api key = "YOUR OPENAL API KEY"

Replace YOUR_OPENAI_API_KEY with your actual OpenAI API key.

Step 4: Define the negotiation logic

Define the negotiation logic for price offers using the OpenAI model. You can use the **negotiate_price** function as an example:

Python

def negotiate_price(user_offer):

Use the OpenAI model to generate a response

response = OpenAl.Completion.create(

```
engine="text-davinci-002",
    prompt=f"User offered ${user offer}. Respond with a
counteroffer or acceptance.",
    max tokens=1024,
    temperature=0.5,
 # Extract the bot's response from the OpenAI model output
  bot_response = response.choices[0].text
  return bot response
This function uses the OpenAI text-davinci-002 engine to generate a
response based on the user's offer.
Step 5: Update the /negotiate endpoint
Update the /negotiate endpoint to use the negotiate price function:
python
@app.route('/negotiate', methods=['POST'])
def negotiate():
  # Get user input from the request (price offer)
  user input = request.json['user input']
  user offer = int(user input)
```

Generate bot's response using the OpenAI model bot_response = negotiate_price(user_offer)

return jsonify({"bot_response": bot_response})

Step 6: Test the integration

Restart your Flask development server by running **python app.py** again. Then, open a web browser and navigate to **http://127.0.0.1:5000** to test the negotiation chatbot interface.

When you enter a price offer and click the "Negotiate" button, the chatbot should respond with a message generated by the OpenAI model.