**Negotiation Chatbot Using Pre-Trained AI Model (ChatGPT) and Sentiment Analysis**

This project implements a negotiation chatbot that simulates price negotiations between a customer and a supplier. The bot uses OpenAI’s GPT model via the openai API to generate conversational responses and includes sentiment analysis to adjust its negotiation strategy based on the customer's tone.

DEPENDENCIES: OpenAI, Transformers, NumPy

1. Set your OpenAI API key to allow interaction with the GPT model.
2. Using Hugging Face’s sentiment analysis pipeline, the bot evaluates the user’s tone. A positive sentiment can trigger better deals.
3. PRICING LOGIC:

* Base price: The original price of the product.
* Min price: The lowest price the bot can offer during negotiation.
* Max discount: The highest discount the bot is willing to give based on positive sentiment.

1. If the sentiment is positive, the bot offers a better deal within the allowed discount range. If the sentiment is neutral or negative, it follows the standard negotiation process.
2. The chatbot continuously accepts user input and negotiates until either the bot accepts the user's offer or presents a final deal.