

Assignment 8

Problem Statement:

Design a real-time service that takes user-generated text as input and provides sentiment predictions. Implement a simple API endpoint or function that accepts text input and returns the sentiment (positive, negative, or neutral) using the pre-trained model.

Let's break down problem statement

- Input- User generated text as input
- Output- sentiment prediction based on input text
- Implementation with API- OpenAI API
- Pre-trained model- text-davinci_003(OpenAI's GPT-3 model)

Solution

- Model- Utilized- OpenAI GPT-3 model, which powerful model for NLP
- Integration with OpenAI API- Utilize OpenAI's API to interact with the GPT-3 model
- Processing user request- User sends text input to the API endpoint, the service constructs a prompt and sends it to the GPT-3 model
- Returning sentiment prediction- Receives the sentiment prediction generated by the GPT-3 model and returns it to the user