

Vishnu Anilkumar, Sahithya Swaminathan,
Rishi Pothukuchi, Ahmed Sabzwari, Calvin Tai
CMPE 131
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Programming with Language Models

- Github Link:
- ChatGPT Prompt

You

Can you write a program that takes a text string as an input and then outputs a message about the sentiment of the text string, whether it's "Positive", "Negative" or "Neutral"?

- Resulting Code

```
main.py X
main.py > analyze_sentiment
1  from textblob import TextBlob
2
3  def analyze_sentiment(text):
4      blob = TextBlob(text)
5      sentiment_polarity = blob.sentiment.polarity
6      if sentiment_polarity > 0:
7          return "Positive"
8      elif sentiment_polarity < 0:
9          return "Negative"
10     else:
11         return "Neutral"
12 input_text = input("Enter the text: ")
13 sentiment = analyze_sentiment(input_text)
14 print(f"The sentiment of the text is: {sentiment}")
15
```

- Program Output

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS C:\Users\rishi\SJSU\3rd Year (Spring Semester)\CMPE 131\In Class Assignments\Pr
ents\Programming with Language Models\main.py"
Enter the text: Have a good day!
The sentiment of the text is: Positive
PS C:\Users\rishi\SJSU\3rd Year (Spring Semester)\CMPE 131\In Class Assignments\Pr
ents\Programming with Language Models\main.py"
Enter the text: I had a bad day at school today.
The sentiment of the text is: Negative
PS C:\Users\rishi\SJSU\3rd Year (Spring Semester)\CMPE 131\In Class Assignments\Pr
ents\Programming with Language Models\main.py"
Enter the text: I had a lot of classes to go to today.
The sentiment of the text is: Neutral
```

```
from textblob import TextBlob

def analyze_sentiment(text):
    blob = TextBlob(text)
    sentiment_polarity = blob.sentiment.polarity
    if sentiment_polarity > 0:
        return "Positive"
    elif sentiment_polarity < 0:
        return "Negative"
    else:
        return "Neutral"

input_text = input("Enter the text: ")
sentiment = analyze_sentiment(input_text)
print(f"The sentiment of the text is: {sentiment}")
```