

Project Description

Sentiment analysis is the process of analyzing digital text to determine if the emotional tone of the message is positive, negative, or neutral.

This API offers sentiment analysis capabilities to assess the sentiment conveyed in a given sentence. It leverages the Text Analytics service offered by Microsoft Azure.

To utilize the API, you're required to submit a POST request to the "/sentiment" endpoint, providing a JSON payload that includes the sentence for analysis. Subsequently, the API will furnish the results of the sentiment analysis in JSON format.

Instructions to use API using POSTMAN

Note: There is a sample request attached below for reference.

Step 1) Launch Postman and initiate a new request.

Step 2) Populate the request URL field with the desired endpoint URL, incorporating the endpoint path, such as <http://66.135.21.182:3000/sentiment-analysis>

Step 3) Set the HTTP method as POST. (As need to send sentence in the request body)

Step 4) Navigate to the request body tab, opt for the "raw" option, and specify the data type as JSON.

Step 5) Within the JSON body, Add a "sentence" field containing the text you intend to assess for sentiment as seen in the example below and hit Send.

JSON:

```
1  {
2  ... "sentence": "I love apples!"
3  }
```

Response:

```
1  {
2    .... "input": "I love apples!",
3    .... "sentimentResult": "positive",
4    .... "sentimentScores": {
5      .... "positive": 0.99,
6      .... "neutral": 0.01,
7      .... "negative": 0.01
8    .... }
9  }
```

Sample Request

The screenshot displays a REST client interface with a request and response for a sentiment analysis API.

Request Details:

- Method: POST
- URL: `http://66.135.21.182:3000/sentiment-analysis`
- Body: `{ "sentence": "I love apples!" }`

Response Details:

- Status: 200 OK
- Time: 216 ms
- Size: 358 B
- Body:

```
{
  "input": "I love apples!",
  "sentimentResult": "positive",
  "sentimentScores": {
    "positive": 0.99,
    "neutral": 0.01,
    "negative": 0.01
  }
}
```

Request

Endpoint:

POST /sentiment

Request body (JSON)

Parameter	Type	Required	Description
sentence	string	yes	Sentence for analysis

Response

Response Body (JSON)

Parameter	Type	Possible Outputs	Description
input	string	N/A	Given Sentence for analysis as a input
sentimentResult	string	Positive or Neutral or Negative	Final ouput sentiment of the sentence
sentimentScores	JSON Object	Score between 0-1 for each Positive, Neutral and Negative category.	JSON object which contain confidence scores for each statement category.

Errors

In case the request encounters an error during processing, the API will respond with an HTTP 400 status code, accompanied by an error message within the response body. Potential error messages include:

Error message	Description
Missing 'sentence' parameter	The 'sentence' parameter is missing from the request

Conclusion

This API offers sentiment analysis capabilities to evaluate the sentiment of a provided sentence. To utilize the service, send a POST request to the "/sentiment-analysis" endpoint, including a JSON payload with the target sentence. The API responds with the sentiment analysis outcomes presented in JSON format.
