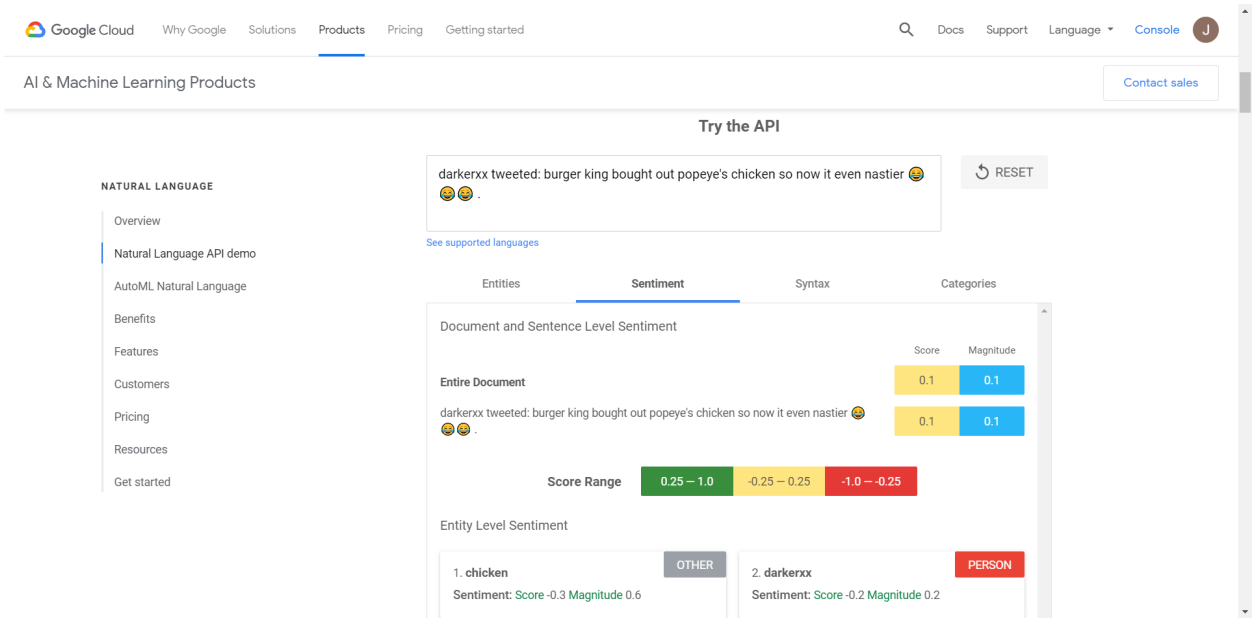
- **What you liked doing?**
  - ZS - I liked studying from programming Twitter search APIs and learning to change fixed input to user's choices. In other words, our Twitter search APIs can search things based on Twitter account's name, key words and number of tweets chosen by user. Moreover, I liked creating Python GUI to interact out program with user.
  - JA - I liked learning about the Google NL APIs and the variety of ways that they can be used to analyze text. I liked troubleshooting the program until we got the modular pieces to work together in the final product.
- **What you could have done better?**
  - ZS - The main areas for improvement on the Twitter search would be to add more filters results, for example, whether the owner of tweets are active and the contents of tweets. As for Python GUI, I could add more interactions for users; instead of requiring all parameters together, I could ask them one by one.
  - JA - The main areas for improvement on the sentiment analysis would be to provide a more comprehensive analysis to the end user through providing visual representations of data and giving the user control over how to view the results.
- **What you will avoid in the future?**
  - ZS - In the future, I might avoid only using keywords to filter the results got from Twitter search API and instead look for other APIs that might offer more specific and more precise filtration on what we exactly want. For example, I wanted feedback on Popeyes chicken burgers, but only got tweets about introduction or just name it in sentence without any comment. (i.e. "Popeyes chicken burgers is here" or "Popeyes chicken burgers sold at $X.XX" is not the desired tweets).
  - JA - In the future, I might avoid only using Google's sentiment analysis and instead look for other APIs that might provide better results for specific social media formats. As an example, tweets very often have non-standard grammar/spelling, and this caused Google's general text analysis to sometimes give an "incorrect" sentiment score (i.e. testing a tweet that is clearly negative to a human in the demo on Google can give a result that shows a non-negative sentiment, as seen in the image below).


Google Cloud
Why Google
Solutions
Products
Pricing
Getting started
Docs
Support
Language
Console
AI & Machine Learning Products
Contact sales
Try the API
NATURAL LANGUAGE
Overview
Natural Language API demo
AutoML Natural Language
Benefits
Features
Customers
Pricing
Resources
Get started
darkerxx tweeted: burger king bought out popeye's chicken so now it even nastier 😂😂😂 .
RESET
See supported languages
Entities
Sentiment
Syntax
Categories
Document and Sentence Level Sentiment
Score
Magnitude
Entire Document
0.1
0.1
darkerxx tweeted: burger king bought out popeye's chicken so now it even nastier 😂😂😂 .
0.1
0.1
Score Range
0.25 — 1.0
-0.25 — 0.25
-1.0 — -0.25
Entity Level Sentiment
1. chicken
OTHER
Sentiment: Score -0.3 Magnitude 0.6
2. darkerxx
PERSON
Sentiment: Score -0.2 Magnitude 0.2