

DS2000

11/8 - Fri ☺

Admin

- HW6 due Aprn today ~ ☺ ★
- Second chance HW due 11/15 Aprn ~ no late submissions

Agenda

1. Sentiment Analysis
2. String implementation
3. Python

1. Sentiment Analysis

Resume context — Python skills

— DS skills → Sentiment Analysis

Are ChatGPT responses neutral?

- is it possible for them to be neutral?
- is that something we'd want?
- does it present 2 sides of an argument



n't be check



↳ neutral

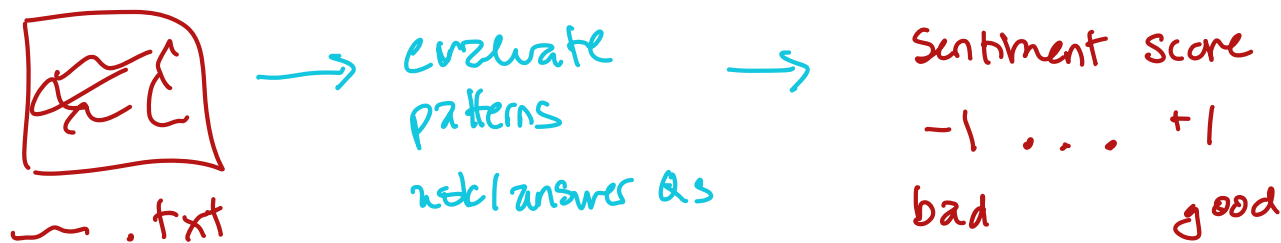
not supposed to give opinions

lays out both sides, doesn't take a side

Sometimes both!

- packaging opinions

👤 → 📺 quantify the nature of the text
[Sentiment Analysis]



Answer Qs w/ sentiment analysis:

- what are people saying about . . . a movie?
an election?
a university?

the Algorithm

- one chatGPT response gets one score (-1 to +1)
- split the response into indiv words
- every word is evaluated:
 - good: add to score
 - bad: subtract from score

weather is nice
0 0 .6

- divide by # words in response

$$\frac{(.6)}{3} = \boxed{.2}$$

2. string implementation

1. Read in chatGPT responses (starter code)
2. Positive/negative words (some in starter code)

{ "happy": 1, "dislike": -.5 }

3. Clean up ChatGPT text (need!)

one response is one string \rightarrow list of words

"dislike." / "dislike!" / "Dislike" \rightarrow "dislike"

\hookrightarrow remove punc., turn everything lowercase

4. compute sentiment score (need!)

name: sentiment_score

parameters: list of words (one response),
dictionary of word: score

returns: float (-1 to +1)

+ Sent
Scores
dictionary