DS2000
11/8 - Fri :)

Admin

- HW6 due 4pm today ~ :) ★
- Second chance HW due 11/15 4pm ~ 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

vibe 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]

.txt → evaluate patterns → Sentiment score

-1 . . . +1

bad good

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 indv words
- every word is evaluated:
  - good: add to score
  - bad: subtract from score
- divide by # words in response

weather is nice

0 0 .6

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

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 ⇝ list of words
- "dislike." / "dislike!" / "Dislike" ⇝ "dislike"
  - ↳ 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