

The background is decorated with various hand-drawn illustrations of fruits and leaves. In the top left, there are three small blue circles. To their right is a slice of orange. Further right is a green leaf. In the top right corner, there is a slice of watermelon with a green rind and red flesh, and a whole green lime. Below the watermelon is a small blue and green leaf. In the middle right, there is a whole green avocado. To its right is a slice of yellow lemon. In the bottom right, there is a whole orange and a cluster of three red cherries. In the bottom center, there is a whole yellow banana. In the bottom left, there is a whole red strawberry. On the left side, there is a whole yellow lemon and a green leaf. The text is centered in the middle of the page.

OiT  
-Yuki Fang

# What did we do?

- ✗ Jessica helped me with my final college decision
- ✗ Practiced whiteboard coding for future technical interviews
- ✗ Developed communication skills
- ✗ Learned Data Science
- ✗ Built Frankie, a chatbot that recommends restaurants based on emojis you send it
- ✗ Learned Python, Yelp API, Twitter API, Github, and Natural Language Processing

# FRANKIE

hi

Hi there!

How are you feeling?tired, you?

I'm feeling pretty alright.

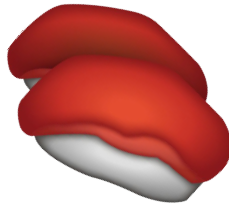
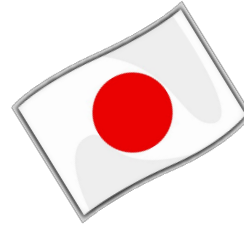
What do you fancy today?['l.', 'g', 'a']🌀

location?near me

Result for business "Doughnut Plant" found:

Result for business "Dough" found:

Result for business "Doughnut Plant" found:



Yelp API

Business  
Details

Reviews

Dough  
+13475337544  
['448 Franklin Ave', 'Brooklyn, NY 11205']  
4.5 stars

'5 stars'  
( 'Love them !!!!\n'  
'\n'  
'Must try the dulce de leche flavor or the pink one small location but cute')  
'4 stars'  
( 'a unique take on donuts and boy did they nail it. These are bigger than your '  
'average donut and have a ton of different options. I went with the '  
'cheesecake...')  
'5 stars'  
( "I've been having doughnuts from their kitchen for years, but I never "  
'actually got to go to their brick and mortar location until recently. I '  
'stopped by here...')

# Twitter API + Sentiment Analysis

## Positive tweets:

b'Good morning... I went to doughnut plant yesterday.... magical experience.'

b'doughnut plant has the best fuckin carrot cake & blueberry donut

b'@92luluxe Doughnut plant in ny best shit ever'

## Negative tweets:

b'I do not like Doughnut Plant, at all.

## Neutral tweets:

I hold off on donuts until I go home to NY: Doughnut Plant





A word cloud on a dark blue background featuring various food-related adjectives. The words are arranged in a roughly circular shape, with 'creative' at the top, 'blueberry' in the middle, and 'flavorful' at the bottom. The words are in different colors and sizes, with 'creative' and 'blueberry' being the largest.

cakey sweet  
creative  
chewy banana  
stale vegan meh  
blueberry  
yeast-raised  
awesome donut  
chocolate  
interesting  
flavorful

Determines every  
word's part of  
speech and displays  
only the adjectives  
in each review

# Natural Language Processing



A word cloud on a dark blue background featuring various food-related adjectives. The words are arranged in a roughly circular shape, with 'dense' at the top, 'unique' in the middle, and 'duleccleche' at the bottom. The words are in different colors and sizes, with 'dense' and 'unique' being the largest.

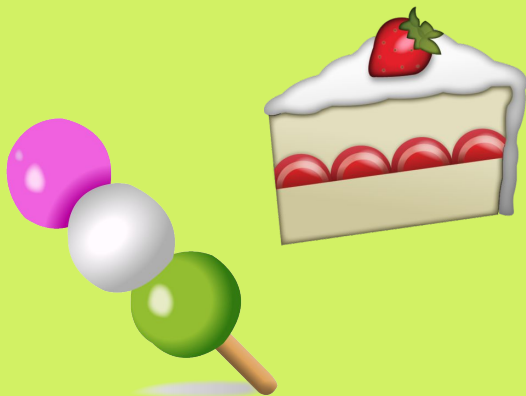
dense  
cheesecake  
glazed greasy  
airy caramel  
unique  
different fluffy mocha  
delectable cute  
average big  
duleccleche



# Problems + Lessons Learned

Yelp API only returns a max of 3 reviews

- Not enough text to analyze and perform NLP with
- Taught me to work around problems and find alternative solutions
- Learned to not rush into coding and do more research beforehand



8 weeks was not a lot of time

- At first, we wanted to predict the next food trend
- Learned to prioritize some tasks over others (what's more important?)
- Backend over frontend

THANK YOU :)

