

QuestionAnswering

October 3, 2023

1 Chat completion API for QA on semi-structured data

In this assignment, you will use the Chat completion API to help users find restaurants by answering queries that express constraints on location, cuisine or food type, and amosphere. The assignment is designed as a sequence of steps as follows:

1. Load and preprocess restaurant and customer review data that is stored in JSON files.
2. Use the chat completion API (ccAPI) to process the user query and extract intended location and cuisine.
3. Find the restaurant(s) that satisfy the location and cuisine constraints.
 - Use ccAPI to determine if a restaurant data indicates they offer the required cuisine.
 - Use ccAPI to also provide explanations for its response above.
4. If more than one restaurant found, output the one that has the highest star rating.

In addition, graduate students will also use the ccAPI and customer reviews as follows:

1. If more than one restaurant found, give preference to the ones that have a fun ambience or atmosphere.
 - If multiple restaurants have a fun ambience, output the one with the highest star rating.
 - If no restaurant has a fun ambience, output the one with the highest star rating.
2. Manually label the reviews with a binary “fun ambience” *label* and use this to compute the accuracy of ccAPI on the same labeling task.

1.1 Write Your Name Here: Claire Ardern

2 Submission Instructions

1. Click the Save button at the top of the Jupyter Notebook.
2. Please make sure to have entered your name above.
3. Select Cell -> All Output -> Clear. This will clear all the outputs from all cells (but will keep the content of ll cells).
4. Select Cell -> Run All. This will run all the cells in order, and will take several minutes.
5. Once you’ve rerun everything, select File -> Download as -> PDF via LaTeX and download a PDF version *wikipedia.pdf* showing the code and the output of all cells, and save it in the same folder that contains the notebook file *wikipedia.ipynb*.
6. Look at the PDF file and make sure all your solutions are there, displayed correctly. The PDF is the only thing we will see when grading!
7. Submit **both** your PDF and notebook on Canvas.

8. Make sure your Canvas submission contains the correct files by downloading it after posting it on Canvas.

2.1 Preprocessing of restaurant and review data (15 points)

Load and preprocess restaurant and customer review data that is stored in JSON files. The files store information regarding the restaurants and customer reviews for a very small subset of the [Yelp dataset](#). Look at the format of the data in the two files to understand its structure or read the dataset documentation [here](#).

The Python JSON API is documented [here](#).

```
[1]: import json

business = json.load(open('../data/business.json'))
reviews = json.load(open('../data/review.json'))

# Create the `id2business` table that maps the "business_id" to the
# corresponding restaurant object.
id2business = { }

# YOUR CODE HERE (5 points)

for rest in business:
    id_num = rest["business_id"]
    id2business[str(id_num)] = rest["name"]

# Create the `location2business` table that maps a tuple (city, state) to a
# list of restaurants at that location.
location2business = {}

# YOUR CODE HERE (5 points)
for rest in business:
    loc = (rest["city"], rest["state"])
    rest_list = []
    if loc not in location2business.keys():
        for rest in business:
            if (rest["city"], rest["state"]) == loc:
                rest_list.append(rest["name"])
        location2business[loc] = rest_list

# For each location show the number of restaurants. For example, the largest
# number (8) should be in Philadelphia.
for location in location2business:
    print(location, len(location2business[location]))

# The "categories" field of a restaurant lists a number of categories, usually
# related to food served or cuisine.
```

```

# For each unique category that is in the data, show the total number of
↳restaurants.
# For example, there are 5 restaurants that are categorized as Mexican.
cat2freq = {}

# YOUR CODE HERE (5 points)
for rest in business:
    cat_list = rest["categories"]
    cat_list = cat_list.split(", ")
    for item in cat_list:
        if item not in cat2freq.keys():
            cat2freq[item] = 1
        elif item in cat2freq.keys():
            cat2freq[item] += 1

# Print all category --> count mappings. For example, cat2freq['Mexican']
↳should be 5.
print(cat2freq)

```

```

('Indianapolis', 'IN') 2
('Chicago', 'IL') 1
('Philadelphia', 'PA') 8
('Reno', 'NV') 3
('Miami', 'FL') 5
('New Orleans', 'LA') 5
('Santa Barbara', 'CA') 1
('Charlotte', 'NC') 2
('Nashville', 'TN') 1
{'Food': 10, 'American (New)': 7, 'Nightlife': 8, 'Bars': 7, 'Empanadas': 1,
'Latin American': 2, 'Restaurants': 26, 'Mexican': 5, 'Tacos': 2, 'Cocktail
Bars': 1, 'American (Traditional)': 4, 'Steakhouses': 2, 'Seafood': 6,
'Lounges': 1, 'Delis': 1, 'Coffee & Tea': 4, 'Breakfast & Brunch': 4, 'Sports
Bars': 1, 'Cajun/Creole': 3, 'Vegetarian': 2, 'Cafes': 3, 'Juice Bars &
Smoothies': 1, 'Sandwiches': 2, 'Poke': 1, 'Parks': 1, 'Soup': 1, 'Music
Venues': 1, 'Active Life': 1, 'Tiki Bars': 1, 'Hawaiian': 1, 'Arts &
Entertainment': 2, 'Dog Parks': 1, 'Tex-Mex': 1, 'Salad': 1, 'Pubs': 1,
'French': 1, 'Barbeque': 1, 'Middle Eastern': 2, 'Burgers': 1, 'Vegan': 1,
'Southern': 2, 'Live/Raw Food': 1, 'Desserts': 2, 'Local Flavor': 1, 'Coffee
Roasteries': 2, 'Themed Cafes': 1, 'Art Galleries': 1, 'Bagels': 1, 'Bakeries':
1, 'Shopping': 1, 'Coffeeshops': 1, 'Japanese': 3, 'Korean': 1, 'Asian Fusion':
2, 'Thai': 2, 'Sushi Bars': 2, 'Chinese': 1, 'Grocery': 1, 'Lebanese': 1,
'Greek': 1, 'Arabic': 1, 'Italian': 1, 'Wine Bars': 1, 'Spanish': 1, 'Basque':
1, 'Ethiopian': 1}

```

2.2 Chat completion API setup

```
[2]: import os
import openai
import tiktoken

from dotenv import load_dotenv, find_dotenv

# Read the local .env file, containing the Open AI secret key.
_ = load_dotenv(find_dotenv())
openai.api_key = os.environ['OPENAI_API_KEY']

# Let's use the `deeplearning.ai` approach and define a function for this use_
↪ pattern.
# Set `temperature = 0` to do greedy decoding => deterministic output.
def get_completion_from_messages(messages, model = "gpt-3.5-turbo", temperature_
↪ = 0, max_tokens = 500):
    response = openai.ChatCompletion.create(model = model,
                                           messages = messages,
                                           temperature = temperature, # the_
↪ degree of randomness of the model's output.
                                           max_tokens = max_tokens) # the_
↪ maximum number of tokens the model can output.
    return response.choices[0].message["content"]
```

2.3 Extract location and cuisine from user query using ccAPI (25 points)

Use the chat completion API (ccAPI) to process the user query and extract intended location and cuisine.

The user wants to find a restaurant. Given a query in natural language, use the LM API should output the following information: 1. **city**: if city is not mentioned, assume Philadelphia. 2. **state**: if state is not mentioned, assume most likely state for that city. 3. **cuisine**: if no cuisine or type of food is mentioned, assume Any.

```
[3]: def get_city_state_cuisine(user_message):
    city, state, cuisine = '', '', ''
    # YOUR CODE HERE

    system_message = f"""
    You will be provided with user restaurant queries. \
    In each query, identify and return only the following information: \
    1. city. If a city is not mentioned, assume Philadelphia. \
    2. state. If a state is not mentioned, assume the most likely state for the_
    ↪ identified city. \
    3. cuisine. If no cuisine or food type is mentioned, assume Any. \

    Provide your output as a list: city, state, cuisine.
```

```

"""

messages = [
    {'role': 'system', 'content': system_message},
    {'role': 'user', 'content': user_message},]

response = get_completion_from_messages(messages)

city, state, cuisine = response.split(", ")

return city, state, cuisine

# Example: user_message = "I am visiting Miami. Can you help me find a
↳ restaurant that serves seafood?"
# should result in city, state, cuisine = 'Miami', 'FL', 'seafood'
# Example: user_message = "I'm in the mood for a cheeseburger, can you help me
↳ find a restaurant?"
# should result in city, state, cuisine = 'Philadelphia', 'PA',
↳ 'cheeseburger'
# Example: user_message = "Can you help me find a restaurant that serves crab?"
# should result in city, state, cuisine = 'Philadelphia', 'PA', 'crab'

user_message = "Can you help me find a restaurant that serves crab?"
city, state, cuisine = get_city_state_cuisine(user_message)

# This should print 'Philadelphia PA crab'.
print(city, state, cuisine)

```

Philadelphia PA crab

2.4 Find restaurants that satisfy the location and cuisine constraint (40 + 5 points)

We will do this in two steps: 1. Use the `location2business` dictionary to satisfy the location constraint. 2. Use the chat completion API to find restaurants whose categories match the cuisine.

- Use `ccAPI` to determine if a restaurant data indicates they offer the required cuisine.
- Use `ccAPI` to also provide explanations for its response above.

```

[4]: # Before running the ccAPI in a loop to find which restaurants satisfy the
↳ cuisine constraint, let's
# do some prompt engineering first. Once we are happy with the prompt, we can
↳ use it inside a loop.
cuisine = "crab" # cheeseburger
categories = "Burgers, Vegetarian, Restaurants, Vegan, Seafood"

```

```

# Play with the ccAPI here to figure out how to make the LM determine if a
↳ restaurant with some 'categories'
# is likely to offer 'cuisine'. Furthermore, in a second interaction, elicit an
↳ explanation from the LM.

# YOUR CODE HERE

def category_and_cuisine(cuisine, categories):

    answer, category = '', ''

    user_message = "Will a restaurant with categories " + categories + " serve
↳ " + cuisine + "?"

    system_message = f"""
    You will be provided with user restaurant queries. \
    For each query, determine whether any of the categories will satisfy \
    the user's desired cuisine as specified in the query. \
    In each query, identify and return only the following information: \
    1. Answer. Does the restaurant provide the user's desired cuisine? \
    2. Category. Which of the given categories satisfies the desired cuisine?
↳ Use "None" if not applicable. \

    Provide your output in list format with the following information: answer
↳ (yes/no), category.

    """

    messages = [
        {'role': 'system', 'content': system_message},
        {'role': 'user', 'content': user_message},
    ]

    response = get_completion_from_messages(messages)
    print(response)

    #answer, category = response.split()

    return answer, category

answer, category = category_and_cuisine(cuisine, categories)

print(answer, category)

def category_and_cuisine_explained(cuisine, categories):

```

```

answer, category, reasoning = '', '', ''

user_message = "Will a restaurant with categories " + categories + " serve_
↳" + cuisine + "?"

system_message = f"""
You will be provided with user restaurant queries. \
For each query, determine whether any of the categories will satisfy \
the user's desired cuisine as specified in the query. \
In each query, identify and return only the following information: \
1. answer. Does the restaurant provide the user's desired cuisine? \
2. category. Which of the given categories satisfies the desired cuisine? \
↳Use "None" if not applicable. \
3. reasoning. Provide an explanation for how you determined whether any of \
↳the categories \
satisfied the desired cuisine.

Provide your output only in list format with the following information: \
↳answer (yes/no), category, reasoning.

"""

messages_2 = [
{'role': 'system', 'content': system_message},
{'role': 'user', 'content': user_message},]

response_2 = get_completion_from_messages(messages_2)
#print(response_2)

response_list = response_2.split(", ")

answer = response_list[0]
category = response_list[1]
reasoning = response_list[2]

#answer, category, reasoning = response_2.split()

return answer, category, reasoning

answer, category, reasoning = category_and_cuisine_explained(cuisine, \
↳categories)

print(answer, category, reasoning)

```

Answer: Yes, Category: Seafood

[Yes Seafood The category "Seafood" can serve crab.]

```
[6]: import time
# Use the LM to find which restaurants offer that cuisine or food type.
# For each restaurant, store the rationale for the Yes or No answer.
def find_restaurants(city, state, cuisine):
    rlist, rationales = [], []
    # YOUR CODE HERE (40 points)

    loc = (city, state)
    #print(loc)
    restaurants = location2business[loc]
    print(restaurants)

    for r in restaurants:
        for elem in business:
            #print(elem)
            if elem['name'] == r:
                categories = elem.get('categories')
                #print(categories)

                answer, category, reasoning = _
category_and_cuisine_explained(cuisine, categories)
                rationales.append({"response": answer, "explanation": _
reasoning})

                if 'yes' in answer.lower():
                    rlist.append({"restaurant": r, "categories": categories})
                    time.sleep(20)

    return rlist, rationales

results, rationales = find_restaurants(city, state, cuisine)

for r in results:
    print(r['categories'])
    print()

print()

for reason in rationales:
    print('Answer: ' + reason['response'])
    print('Rationale: ' + reason['explanation'])
    print()
```

['Marmont Steakhouse & Bar', 'The Trappe Tavern', 'Bistro St. Tropez',
'HipCityVeg', 'New South Ocean Chinese & Japanese Restaurant', "Honey's Sit-N-
Eat", 'The Fresh Market', 'Amber Asian Cafe']
American (Traditional), Steakhouses, Nightlife, Bars, Seafood, Restaurants,

Lounges

American (Traditional), Bars, Restaurants, Nightlife, Seafood, Sports Bars

Restaurants, Thai, Sushi Bars, Japanese, Chinese, Asian Fusion

Restaurants, Japanese, Sushi Bars, Thai

Answer: [{"answer": "yes"}]

Rationale: "reasoning": "The category 'Seafood' indicates that the restaurant serves seafood"

Answer: [{"answer": "yes"}]

Rationale: "reasoning": "The category 'Seafood' suggests that the restaurant serves crab."}]

Answer: [No

Rationale: The category "French" does not necessarily imply that the restaurant serves crab. It is possible for a French restaurant to serve crab

Answer: [No

Rationale: The categories Burgers

Answer: [{"answer": "yes"}]

Rationale: "reasoning": "The category 'Asian Fusion' includes a combination of different Asian cuisines

Answer: [{"answer": "no"}]

Rationale: "reasoning": "The given categories do not indicate that the restaurant serves crab."}]

Answer: [No

Rationale: The categories Food and Grocery do not indicate that the restaurant serves crab. The categories suggest that the restaurant provides food and groceries

Answer: [Yes

Rationale: "Japanese" cuisine includes sushi and seafood dishes like crab.]

```
[7]: # Given a list of restaurants that were found to satisfy location and cuisine
      ↪ constraints,
      # return the one with the highest star rating.
      def argmax_rating(restaurants):
          R = {}
          M = 0.0
```

```

# YOUR CODE HERE (5 points)
for r in restaurants:
    for b in business:
        if r["restaurant"] == b['name']:
            rating = b['stars']
            if rating > M:
                R['name'] = r["restaurant"]
                R['stars'] = rating
                R['categories'] = r["categories"]
                if 'business_id' in r.keys():
                    R['business_id'] = r['business_id']
                M = rating

return R, M

R, M = argmax_rating(results)
print('Restaurant ' + R['name'] + ' is likely to offer ' + cuisine + '.')
print('It has a star rating of ' + str(R['stars']) + ' and the following_
↳categories: ' + R['categories'] + '.')

```

Restaurant New South Ocean Chinese & Japanese Restaurant is likely to offer crab.

It has a star rating of 4.0 and the following categories: Restaurants, Thai, Sushi Bars, Japanese, Chinese, Asian Fusion.

2.5 Keep only restaurants that have a fun atmosphere (5 + 40 points)

We will do this by using the ccAPI to determine if a restaurant review indicates there is a fun atmosphere.

```

[10]: # Write a function that finds the text of the restaurant review.
def find_review_for_restaurant(rid):
    # YOUR CODE HERE (5 points)
    review = {}

    for item in reviews:
        if item['business_id'] == rid:
            review = item['text']

    return review

# Use the LM to find which restaurants from 'rlist' have a fun atmosphere.
# For each restaurant, store the rationale for the Yes or No answer.
def find_fun_restaurants(rlist):
    fun_list, explanations = [], []
    # YOUR CODE HERE

```

```

# rlist/results = {restaurant: __ , category: __}
for r in rlist:
    restaurant = r['restaurant']
    for elem in business:
        if elem['name'] == restaurant:

            # Get the review
            review = find_review_for_restaurant(elem['business_id'])

            # Use LM to judge if reivew indicates fun atmosphere
            system_message = f"""
            You will be provided with restaurant reviews. Return the
↪following information: \
            1. answer. Determine whether the review indicates that the
↪restaurant has a fun atmosphere. \
            2. reasoning. Provide an explanation for your reasoning behind
↪whether review indicates that \
            the restaurant has a fun atmosphere. \

            Provide your output only in Python list format with the
↪following information: answer (yes/no), reasoning.
            """

            messages = [
                {'role': 'system', 'content': system_message},
                {'role': 'user', 'content': review},]

            response = get_completion_from_messages(messages)
            response = response.split(', ')
            answer = response[0]
            reasoning = response[1]
            time.sleep(20)

            explanations.append({"review": review, "response": answer,
↪"explanation": reasoning})
            if 'yes' in answer.lower():
                fun_list.append({"restaurant": r['restaurant'],
↪"categories": r['categories'],
                                "business_id": elem['business_id']})

# fun_list NEEDS RESTAURANT NAME AND CATEGORY, LIKE rlist/results

return fun_list, explanations

```

```

fun_list, explanations = find_fun_restaurants(results)
for e in explanations:
    print('Review: ' + e['review'])
    print('Response: ' + e['response'])
    print('Explanations: ' + e['explanation'])
    print()

```

Review: This place has excellent service, wonderful food and a fun atmosphere! Everything I have ever had has been cooked correctly and delicious. The cocktails are not over priced like most in Philadelphia. A yummy martini runs about \$8. Try the Ruby Red Champagne Cosmo! You'll go back for that alone!

I will continue to spend my hard earned money here.

Response: ['yes']

Explanations: 'The review mentions that the restaurant has a fun atmosphere along with excellent service and wonderful food. The mention of yummy cocktails and a specific recommendation for a drink also suggests a fun atmosphere.']

Review: Typical pub food that isn't anything to drool over. The nightlife here is what probably keeps this place alive. Being near Ursinus College, the weekends attract a large college crowd with a fun environment. They have a fun outside "beachy" area with lights and games and you can sit at a table and eat out there too. It's always packed though. The only downside is you're staring at a parking lot while you're out there and a shopping center, but hey, that's what you're going to get for Collegeville. The staff is always friendly and they have a decent drink selection. If you want to come without the crowds, come during the day. It's fairly empty (or at least not packed). It is no fine dining, but the food isn't bad. The rib sandwich is pretty good which I'd recommend, although there were a lot of fatty areas- but some people may like this! I also had a BLT that was pretty good that comes with plain chips. Prices are just average. Not sure if I'll continue to come here for food, but I'd definitely come back for a happy hour.

Response: ['yes']

Explanations: 'The review mentions that the restaurant has a fun outside "beachy" area with lights and games

Review: South Ocean's website is most definitely deceiving. It gives the impression of a lush Asian Experience.

Reality is much different than the Matrix...

I would call this dive sushi in a Chandler-esque manner. This place is not for the faint of heart...or even the local food inspector.

While the Lexis Roll really is a fantastic creation (tuna, salmon, avocado, spicy sauce and an exotic presentation, the rest of the really sushi is just passable...if you can't get sushi anywhere else.

The staff is courteous. The clientele is amusing. Don't come for the sushi.

I'm still on the hunt for good sushi in suburban Philly. I may have to break down and actually head into the City.

More to follow...

Response: ['no']

Explanations: 'The review indicates that the restaurant does not have a fun atmosphere. The reviewer mentions that the restaurant is not for the faint of heart and the staff and clientele are amusing

Review: I had lunch here a couple of months ago. I chose a dish from their Chinese lunch menu and it included the main dish plus soup and rice (I had fried rice and hot/sour soup). All of it was good and I was satisfied for about \$7. Not too shabby.

Response: ['no']

Explanations: 'The review does not indicate that the restaurant has a fun atmosphere. The review focuses on the quality of the food and the value for money

```
[11]: # If restaurants with fun ambience were found, return the one with the highest
      ↪star rating.
      if fun_list:
          R, M = argmax_rating(fun_list)
          print('Restaurant ' + R['name'] + ' is likely to offer ' + cuisine + ' and
          ↪has a fun ambience.')
          print('It has a star rating of ' + str(R['stars']) + ' and the review below.
          ↪')
          print(find_review_for_restaurant(R['business_id']))
```

Restaurant Marmont Steakhouse & Bar is likely to offer crab and has a fun ambience.

It has a star rating of 3.5 and the review below.

This place has excellent service, wonderful food and a fun atmosphere!

Everything I have ever had has been cooked correctly and delicious.

The cocktails are not over priced like most in Philadelphia. A yummy martini runs about \$8. Try the Ruby Red Champagne Cosmo! You'll go back for that alone!

I will continue to spend my hard earned money here.

2.6 Manual vs. System annotation of reviews (25 + 25 + 10 points)

Manually label the reviews with a binary fun ambience label and use this to compute the accuracy of ccAPI on the same labeling task.

1. [25p] For each review in `reviews`, manually add a new key named `label` that is mapped to a value of 1 if you determine that the review indicates a fun atmosphere, otherwise 0. Save this into a new JSON file named `reviews_manual.json`.
2. [25p] For each review in `reviews`, use the ccAPI to determine if the review indicates a fun atmosphere. If it does, then add a new key named `label` that is mapped to a value of 1, otherwise 0. Save this into a new JSON file named `reviews_system.json`.
3. [10p] Write a function `accuracy(manual, system)` that computes the accuracy of the system labels with respect to the manual labels.
 - Look at the cases where the system label is different from your manual label and try to explain why.

```
[12]: # YOUR CODE HERE
reviews_manual = reviews
rev_man = []

# Manually label
for line in reviews_manual:
    print(line['text'])
    label = input('Does this review indicate a fun atmosphere? (yes: 1, no: 0)')
    if label == 1:
        line['label'] = 1
        rev_man.append(1)
    elif label == 0:
        line['label'] = 0
        rev_man.append(0)

print("Manual labels complete. \n")

json_object = json.dumps(reviews_manual, indent=10)

# Write to json
with open("reviews_manual.json", "w") as outfile:
    outfile.write(json_object)
```

I usually don't like to visit new restaurants RIGHT when they open. I think they need some time to figure things out and get their servers trained to provide good service. However, we visited Livery immediately upon opening, since we love CRG restaurants, and it did NOT disappoint. We tried starters, entrees, desserts and drinks and all were excellent. The food had incredible flavors. The drinks were very well crafted (although the bartenders have been pretty slow each time we've visited) using 4+ ingredients. I can't say enough good things about the food! The space is beautiful. I love the original brick mixed with lots of modern touches. It doesn't look like any other CRG restaurant. It has upbeat, loud music that lends to a fun bar atmosphere. With small plates moderately priced you can spend as little or as much as your budget allows. If you haven't checked it out yet it's definitely worth your time!

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

1

Saw them cooking tacos on the sidewalk outside of the restaurant , so that got our interest . We were urged to try them by a few employees standing outside . They were really friendly , but we wanted to sit down , so we went in . Everybody working there had some freaky makeup on for Halloween . Even the strolling musicians . Our waiter was top notch , had a great personality . I ordered the spicy mango chicken wings that were huge and tasty . My friend had the \$11 taco plate . Which consisted of 2 of the street tacos sold out front , plus beans and rice . The tacos were al pastor or pork tacos , which he said were delicious , but not abnormally large or small . Just 2 regular corn tortilla tacos . Could have been bigger for \$11 . The rice and beans were decent . Again not a huge portion . But decent enough . The musicians were doing Spanish versions of American songs . And the atmosphere was super fun and the employees were friendly and truly seemed like they wanted to be there . Will definitely be back . The 2 tacos had to be the same kind and there was an upheaved for certain tacos , which weren't mentioned on the menu , but our waiter did tell us . Even qdoba will give you different tacos . For the employees and the taste , we will be back . For the value and the stupid 1 type of taco rule , they get a 1 star deduct . Way more inventive menu than most Mexican restaurants in the area . I eat out , pretty much everyday of my life , and this one will be in my rotation when I'm in edwardsville .
Does this review indicate a fun atmosphere? (yes: 1, no: 0)

1

This place has excellent service, wonderful food and a fun atmosphere! Everything I have ever had has been cooked correctly and delicious. The cocktails are not over priced like most in Philadelphia. A yummy martini runs about \$8. Try the Ruby Red Champagne Cosmo! You'll go back for that alone!
I will continue to spend my hard earned money here.
Does this review indicate a fun atmosphere? (yes: 1, no: 0)

1

Typical pub food that isn't anything to drool over. The nightlife here is what probably keeps this place alive. Being near Ursinus College, the weekends attract a large college crowd with a fun environment. They have a fun outside "beachy" area with lights and games and you can sit at a table and eat out there too. It's always packed though. The only downside is you're staring at a parking lot while you're out there and a shopping center, but hey, that's what you're going to get for Collegeville. The staff is always friendly and they have a decent drink selection. If you want to come without the crowds, come during the day. It's fairly empty (or at least not packed). It is no fine dining, but the food isn't bad. The rib sandwich is pretty good which I'd recommend, although there were a lot of fatty areas- but some people may like this! I also had a BLT that was pretty good that comes with plain chips. Prices are just average. Not sure if I'll continue to come here for food, but I'd definitely come back for a happy hour.
Does this review indicate a fun atmosphere? (yes: 1, no: 0)

1

Well done Saint Louis. I didn't dream of having a Boiling Crab-esque restaurant

out here, but here I am. Mad Crab met my expectations and then some. The "whole shabang" (aka: whole shebang) medium and mild seasoning was amazing! The half dozen oysters tasted beautifully fresh and the staff were gracious in my requests for salt and pepper and hella limes.

I think this is a great first date place! Take advantage of the fact that you and your date can get messy together in a fun and casual setting! And, if he/she doesn't like cajun seafood, you know they're not the one!

My advice to the management, if they read reviews, is to have their wait staff add that extra human touch by tying the bibs for their customers. Boiling Crab does that and that extra little service goes a long way. In addition, consider providing wet wipes for their customers with their check.

Overall, well done and I'll be sure to recommend Mad Crab to my Saint Louis friends.

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

1

Simply delicious and worth the wait. Not a super fan of their bacon, it tastes like cheap meat, but EVERYTHING ELSE is awesome. This most recent visit I had the Migas and it was fantastic. This is one of the best breakfast joints in town!

The ambience is fun and the service is good too!

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

1

Well prepared, creative, fresh food in a casual fun atmosphere. Good drinks. Great prices.

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

1

This is one fun Irish bar.

theres always a good crowd there, and a fun atmosphere
maybe it's the \$5 PBR pitchers?

whatever it is there's always something going on here.

iv'e never seen so much Jager jugged in one place haha

check this place out! your'e guaranteed to have a good time!!

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

1

Located in what was once an old car factory, now a Furniture Mall for Interior Decorators. The decor is somewhat amusing. The ambiance was nice despite that someone had to bring their yowling babe (and at 9 PM!) The waiter was nice and sat us away from the squalling babe. We ate Degustation, which is reasonable compared to many Prix Fix restaurants.

I ate there with a friend who is a chef. The melon, cucumber and mint soup was a little bitter. The corn soup was just right. The pate was curiously bland, needing something. The Salmon Tartare was good. The Divers Scallops had a curious bitter under taste. my friend believes that they were not fresh but had

some preservative. The steak frites was fine, a little bland. The cheese plate was delicious and the desert was very good.

Overall, the food was nothing to write home about. The staff was friendly and polite. The table of young ladies were a bit much with their cackling. And is it too much to ask you keep your infants home with a sitter?

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

After hearing a lot about this place and driving by it constantly, I finally decided to make a trip with my fiancé. Upon entering it has a nice, casual, amusing look. There are many humorous signs on the walls and it is very clean.

Wait staff is very welcoming and kind. It didn't take too long to get our drinks ordered and they gave us plenty of time to look over the surprisingly large menu. Most items are fairly well priced but some of the BBQ combos can be a little on the high side at \$17.99.

With that said, I ordered the Hogwild Combo and my fiancé ordered the BBQ Rib plate. Portions are generous and well plated. The pulled pork was absolutely amazing, while the chicken was extremely dry and needed a sip of your drink just to be able to swallow it. This happens with BBQ sometimes, and will not deter me from ordering the chicken again. The ribs were also quite good. Mine were not dry at all and came off the bone marvelously, no tug at all. My fiancé's ribs were good as well, but the end of her slab was very thin, thus resulting in a few much drier ribs (the part of the ribs that were center cut were quite good).

Overall the food had excellent flavor and was not overly smoked. The corn on the cob was fantastic, as was the thick, Texas Toast style Garlic bread served with the meal. The fries are seasoned just enough and went extremely well with their ranch.

Overall this was a fantastic meal. I would have liked if the combo plates were slightly less, but it will not stop me from going back and getting the same thing again. Next time I will try the brisket, as they were out of it tonight.

I would recommend this to anyone who likes BBQ, and fitting for the entire family!

Also, I provided pictures of every page on the menu. I hope they help!

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

The food was decent, if a little bland, and we didn't quite get what we ordered, and the bread wasn't as good as we had hoped for. I think it wasn't that fresh, and it definitely wasn't warm. We were also there at a funny time. While the staff was trying hard, they were obviously distracted by other duties. The recycled Chapalas booths are amusing.

We may try it again during a more "normal" time of day.

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

Don't expect to walk out feeling light and healthy. But do expect a satisfying meal!

The cheery interior, perfect location, and constant crowd drew me in on a stroll down 18th. On my first visit, I started with sweet potato fries and a groothie smoothie. Both were winners in my book.

But, next week came the challenge - Pleasing my meat and potatoes husband. On the cashier's recommendation we went with the Crispy Ranch and Buffalo 'bella, along with fries and green lemonade. Everything was good, but left us feeling greasy. The sauces were impressively creamy and the fake meat spot-on. But was it better than a burger? Probably not. Was it healthier? Debatable.

Next time, I will try something not fried. And there certainly will be a next time, because I need to try the delicious looking banana whip. And because, even if you leave greasy, you feel a bit better about yourself.

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

I enjoyed my dinner at grand isle. We came in with a party of 12 and sampled many things off the menu, I recommend:

-oysters Rockefeller

-raw oysters

-baked calamari

-gumbo

-new orleans ribs

-red fish and crab

Service: fast and friendly

Price: \$\$

Ambiance: cheerful and open, its located on cute Fulton Street.

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

Great coffee and offers breakfast and lunch. I had the Croissant BBQ sandwich with chips and pickle yesterday. Excellent sandwich. Many hot and cold coffee choices as well as other offerings. I had only been thru the drive thru until yesterday and was very pleasantly surprised at the cheerful woodsy decor. Staff are friendly and accommodating. Will definitely be a frequent customer.

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

Wow, where to start...the drinks, food and service were all FANTASTIC.

Nicole ordered the veggie lasagna and I had the shrimp/chorizo combo. We both liked our own meals the best =)

After 4 days in Tahoe, it's funny that our favorite meal was in Reno. Great job chef!

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

Someone had the audacity to open a place called Breakfast, and not even serve breakfast food. They have a couple scones and donuts, but I'm not sure if having those two items constitute enough to calling a whole coffee shop "Breakfast". It's not ironic enough to be funny, it's just annoying. The vegan doughnut dense and heavily sweet, but pretty good. ALSO they don't have a telephone number, which just adds to the annoyance of this place. The expensive coffee, annoying name, and "too cool" vibe you get from this place outweighs the slightly above mediocre doughnut.

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

I'm thrilled that I finally found this place. The tacos are extraordinary, especially the fish and tofu. Spicy in a good way. It's funny how the name starts with "Soy" but you have to ask for tofu (since it's not on the menu). Owners are delightful. It's all about the special sauces - yum yum gimme some! Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

South Ocean's website is most definitely deceiving. It gives the impression of a lush Asian Experience.

Reality is much different than the Matrix...

I would call this dive sushi in a Chandler-esque manner. This place is not for the faint of heart...or even the local food inspector.

While the Lexis Roll really is a fantastic creation (tuna, salmon, avocado, spicy sauce and an exotic presentation, the rest of the really sushi is just passable...if you can't get sushi anywhere else.

The staff is courteous. The clientele is amusing. Don't come for the sushi.

I'm still on the hunt for good sushi in suburban Philly. I may have to break down and actually head into the City.

More to follow...

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

My favorite breakfast place in the city. The staff are extremely kind - my sister brought her 10 month old daughter who found it extremely amusing to throw napkins on the ground. The one waitress, who wasn't even assigned to our table, kept helping us pick up what she dropped.

GET THE LATKES. And anything else.

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

Nice store, helpful employees, I agree w/ the lady who said she feels out of place there. I also do. My hubby is blue collar and this area is mostly inhabited by the rich & privileged. The prices are OK on produce but the canned

goods etc are way overpriced. The baked goods are way too sweet, so stay away from those unless you don't bake, in that case you might think they are good. But those of us who bake know better. (smile)

The meats and seafood are excellent. I also find it amusing how customers, even capable strong men allow the clerks to carry their one light bag to their car! I only shop there occasionally since I'm not the typical Chadds Ford resident and like to buy on sale.

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

This is a welcomed surprise for University City. Really enjoy the crab, bib, glove, bucket of beer experience. It's great fun to eat with your hands once in a while. But, I found it pricey. Especially considering it's located right next to an Asian seafood market where you can get the same ingredients at a fraction of the cost. Would love to see the price point decrease. Would make the experience a little more palpable.

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

1

What a fun experience. Great tacos. Outdoor dining and no liquor license but the market next door has plenty of ice cold Modelo to go. They close at 5:00 so dinner may be a problem but for a delicious lunch you cannot go wrong.

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

1

Went to the soft opening and boy were we blown away. The cocktails were amazing, fresh and extremely creative. The food however was the absolute showstopper! Absolutely delicious!!! Keep up the good work and y'all will have a line around the block. Service from Alex and the rest of the team was top notch. Thanks again and cheers!

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

I had lunch here a couple of months ago. I chose a dish from their Chinese lunch menu and it included the main dish plus soup and rice (I had fried rice and hot/sour soup). All of it was good and I was satisfied for about \$7. Not too shabby.

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

We've been to almost every greek restaurant in NOLA area and this is the BEST GREEK FOOD in town. The gyro platter is my favorite and what i like the most is that the portions are so good that i always take the leftovers home. The falafel is so delicious too. I can eat here everyday :)

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

A gem of a restaurant tucked away in a small strip plaza that is much larger than it first looks. Our server John was very attentive & friendly. He had a great number of regular patrons that he greeted & already knew their drinks of choice. They all seemed so happy to see John. I was amazed how many regulars were there. Do make a reservation since every table was occupied plus a few couples waited at the bar.

The food was tasty & visually a delight. My pork tenderloin was excellent. Only reason why no 5 star was the bread pudding. I overheard a woman tell her server that the bread pudding was too doughy. I second the motion. It was doughy & very dense. It needed a few raisins to break up the dense texture.

Everyone around us was ordering the chicken Marsala so that will be my next visit meal. Happy hour on Saturday was 4-7

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

This restaurant is beautiful and the food is amazing! The house bread is so yummy, as well as the house sangria. The atmosphere is very swanky with well dressed good looking people at every table. My only complaint is that we sat for 15- 20 mins without a wine list, menu, and water when we were seated. For the price, I expect better service. I will try it again.

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

Really great foodie dive. The Abyssinia special is your best bet. It is essentially a sampler platter with plenty for 2. We still filled a to go box. Add on 2 spiced teas and your whole bill with tip is only \$20. They have all your favorite Ethiopian homestyle dishes served up with fresh injera.

Does this review indicate a fun atmosphere? (yes: 1, no: 0)

0

Manual labels complete.

```
[16]: reviews_system = reviews
rev_sys = []

for line in reviews_system:
    review = line['text']

    user_message = f"For the following restaurant review, determine if the
    ↪review indicates \
    a fun atmosphere. Respond with an integer, no text. Use a 1 to indicate a
    ↪fun atmosphere, \
    otherwise 0. Review: {review}"

    messages = [ {'role':'system', 'content': "You are a helpful assistant"},
                  {'role':'user', 'content': user_message}]

    response = get_completion_from_messages(messages)
    print(response)
    time.sleep(20)
    if '1' in response:
        line['label'] = 1
        rev_sys.append(1)
    if '0' in response:
```

```

        line['label'] = 0
        rev_sys.append(0)

print("System labels complete. \n")

json_object_2 = json.dumps(reviews_system, indent=10)

# Write to json
with open("reviews_system.json", "w") as outfile:
    outfile.write(json_object_2)

```

```

-----
RateLimitError                                Traceback (most recent call last)
Cell In[16], line 14
      7 user_message = f"For the following restaurant review, determine if the
      ↳ review indicates \
      8 a fun atmosphere. Respond with an integer, no text. Use a 1 to indicate
      ↳ a fun atmosphere, \
      9 otherwise 0. Review: {review}"
     11 messages = [ {'role':'system', 'content': "You are a helpful
      ↳ assistant"},
     12                 {'role':'user', 'content': user_message}]
---> 14 response = get_completion_from_messages(messages)
     15 print(response)
     16 time.sleep(20)

```

```

Cell In[2], line 14, in get_completion_from_messages(messages, model,
↳ temperature, max_tokens)
     13 def get_completion_from_messages(messages, model = "gpt-3.5-turbo",
↳ temperature = 0, max_tokens = 500):
---> 14     response = openai.ChatCompletion.create(model = model,
     15                                             messages = messages,
     16
     ↳
     ↳ temperature = temperature, # the degree of ran
     17                                             max_tokens = max_tokens) #
↳ the maximum number of tokens the model can output.
     18     return response.choices[0].message["content"]

```

```

File ~\anaconda3\lib\site-packages\openai\api_resources\chat_completion.py:25,
↳ in ChatCompletion.create(cls, *args, **kwargs)
     23 while True:
     24     try:
---> 25         return super().create(*args, **kwargs)
     26     except TryAgain as e:
     27         if timeout is not None and time.time() > start + timeout:

```

```

File
↳ ~\anaconda3\lib\site-packages\openai\api_resources\abstract\engine_api_resource.py:153, in EngineAPIResource.create(cls, api_key, api_base, api_type, request_id, api_version, organization, **params)
    127 @classmethod
    128 def create(
    129     cls,
    (...)
    136     **params,
    137 ):
    138     (
    139         deployment_id,
    140         engine,
    (...)
    150         api_key, api_base, api_type, api_version, organization, **params
    151     )
--> 153     response, _, api_key = requestor.request(
    154         "post",
    155         url,
    156         params=params,
    157         headers=headers,
    158         stream=stream,
    159         request_id=request_id,
    160         request_timeout=request_timeout,
    161     )
    163     if stream:
    164         # must be an iterator
    165         assert not isinstance(response, OpenAIResponse)

```

```

File ~\anaconda3\lib\site-packages\openai\api_requestor.py:298, in APIRequestor.request(self, method, url, params, headers, files, stream, request_id, request_timeout)
    277 def request(
    278     self,
    279     method,
    (...)
    286     request_timeout: Optional[Union[float, Tuple[float, float]]] = None
    287 ) -> Tuple[Union[OpenAIResponse, Iterator[OpenAIResponse]], bool, str]:
    288     result = self.request_raw(
    289         method.lower(),
    290         url,
    (...)
    296         request_timeout=request_timeout,
    297     )
--> 298     resp, got_stream = self._interpret_response(result, stream)
    299     return resp, got_stream, self.api_key

```

```
File ~\anaconda3\lib\site-packages\openai\api_requestor.py:700, in APIRequestor
    _interpret_response(self, result, stream)
```

```
    692     return (
    693         self._interpret_response_line(
    694             line, result.status_code, result.headers, stream=True
    695         )
    696         for line in parse_stream(result.iter_lines())
    697     ), True
    698 else:
    699     return (
--> 700         self._interpret_response_line(
    701             result.content.decode("utf-8"),
    702             result.status_code,
    703             result.headers,
    704             stream=False,
    705         ),
    706         False,
    707     )
```

```
File ~\anaconda3\lib\site-packages\openai\api_requestor.py:765, in APIRequestor
    _interpret_response_line(self, rbody, rcode, rheaders, stream)
```

```
    763 stream_error = stream and "error" in resp.data
    764 if stream_error or not 200 <= rcode < 300:
--> 765     raise self.handle_error_response(
    766         rbody, rcode, resp.data, rheaders, stream_error=stream_error
    767     )
    768 return resp
```

```
RateLimitError: Rate limit reached for default-gpt-3.5-turbo in organization_
    org-jXairIaMdn9UsriTgOMHWPFI on requests per day. Limit: 200 / day. Please tr
    again in 7m12s. Contact us through our help center at help.openai.com if you
    continue to have issues. Please add a payment method to your account to
    increase your rate limit. Visit https://platform.openai.com/account/billing t
    add a payment method.
```

```
[24]: def accuracy(manual, system):
    count = 0

    print("Manual: ", manual)
    print("System: ", system)

    for i in range(len(manual)):
        if system_label[i] == manual_label[i]:
            count += 1

    #print(count)
    #print(len(manual_label))
    score = count/len(manual)
```



```

    return score

acc = accuracy(rev_man, rev_sys)
print("Accuracy on a scale of 0 to 1: ", acc)

```

```

[0, 0, 0, 1, 0, 1, 1, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[0, 0, 0, 1, 0, 1, 1, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0]
Accuracy on a scale of 0 to 1: 1.0

```

Look at the cases where the system label is different from your manual label and try to explain why. > There are no cases where the system label is different from the manual label, though this might not always be the case when using LMs to create the labels (the output may not be the same every time).

Any difference in the system labels and manual labels will occur due to a difference of “opinion” between the system and the user. The LM is likely analyzing the text of the review to determine if any part of the text implies that there is a fun atmosphere. Because this is just a model that is trying to understand natural language, it may not always be accurate.

2.7 Bonus points

Any non-trivial task that is relevant for this assignment will be considered for bonus points. For example:

1. Using the ccAPI to determine the sentiment of restaurant reviews.
 - Additionally, manually label sentiment and compute the ccAPI accuracy for sentiment classification.
2. Using the ccAPI to determine if the review indicates that the restaurant is kid-friendly.
 - Additionally, manually label sentiment and compute the ccAPI accuracy for this task as well.
3. Use the much larger Yelp dataset where restaurants have multiple reviews and build a full conversational AI for restaurant search.
 - Incorporate a component that takes as input a user profile listing their preferences and interests, and finds restaurant reviews that contain **atypical aspects** that are likely to surprise the user in a positive way (talk to me or Erfan about this).
 - Run an empirical comparison of GPT vs. Llama-2 on various NL tasks using this dataset.
4. Obtain an estimate of the LM’s confidence in its responses and use this confidence estimate to select restaurants that are most likely to satisfy the user’s constraints:
 - You can use “Verbalized confidence”, “Self-consistency confidence”, and “Induced Consistency Confidence” as described in the paper [Can LLMs Express Their Uncertainty? An Empirical Evaluation of Confidence Elicitation in LLMs](#).

BONUS OPTION 1 Sentiment of restaurant reviews.

```

[16]: review_sent_manual = reviews
      rev_sent_man = []

```

```

# Manually label
for line in review_sent_manual:
    print(line['text'])
    label = input('Does this review have positive or negative sentiment? (pos: 1, neg: 0) \n')
    if label == 1:
        line['label'] = 1
        rev_sent_man.append(1)
    elif label == 0:
        line['label'] = 0
        rev_sent_man.append(0)

print("Manual labels complete. \n")

```

I usually don't like to visit new restaurants RIGHT when they open. I think they need some time to figure things out and get their servers trained to provide good service. However, we visited Livery immediately upon opening, since we love CRG restaurants, and it did NOT disappoint. We tried starters, entrees, desserts and drinks and all were excellent. The food had incredible flavors. The drinks were very well crafted (although the bartenders have been pretty slow each time we've visited) using 4+ ingredients. I can't say enough good things about the food! The space is beautiful. I love the original brick mixed with lots of modern touches. It doesn't look like any other CRG restaurant. It has upbeat, loud music that lends to a fun bar atmosphere. With small plates moderately priced you can spend as little or as much as your budget allows. If you haven't checked it out yet it's definitely worth your time!

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

1

Saw them cooking tacos on the sidewalk outside of the restaurant , so that got our interest . We were urged to try them by a few employees standing outside . They were really friendly , but we wanted to sit down , so we went in . Everybody working there had some freaky makeup on for Halloween . Even the strolling musicians . Our waiter was top notch , had a great personality . I ordered the spicy mango chicken wings that were huge and tasty . My friend had the \$11 taco plate . Which consisted of 2 of the street tacos sold out front , plus beans and rice . The tacos were all pastor or pork tacos , which he said were delicious , but not abnormally large or small . Just 2 regular corn tortilla tacos . Could have been bigger for \$11 . The rice and beans were decent . Again not a huge portion . But decent enough . The musicians were doing Spanish versions of American songs . And the atmosphere was super fun and the employees were friendly and truly seemed like they wanted to be there . Will definitely be back . The 2 tacos had to be the same kind and there was an upheaved for certain tacos , which weren't mentioned on the menu , but our waiter did tell us . Even qdoba will give you different tacos . For the employees and the taste , we will be back . For the value and the stupid 1 type of taco rule , they get a 1 star deduct . Way more inventive menu than most

Mexican restaurants in the area . I eat out , pretty much everyday of my life , and this one will be in my rotation when I'm in edwardsville .

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

1

This place has excellent service, wonderful food and a fun atmosphere! Everything I have ever had has been cooked correctly and delicious. The cocktails are not over priced like most in Philadelphia. A yummy martini runs about \$8. Try the Ruby Red Champagne Cosmo! You'll go back for that alone!

I will continue to spend my hard earned money here.

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

1

Typical pub food that isn't anything to drool over. The nightlife here is what probably keeps this place alive. Being near Ursinus College, the weekends attract a large college crowd with a fun environment. They have a fun outside "beachy" area with lights and games and you can sit at a table and eat out there too. It's always packed though. The only downside is you're staring at a parking lot while you're out there and a shopping center, but hey, that's what you're going to get for Collegeville. The staff is always friendly and they have a decent drink selection. If you want to come without the crowds, come during the day. It's fairly empty (or at least not packed). It is no fine dining, but the food isn't bad. The rib sandwich is pretty good which I'd recommend, although there were a lot of fatty areas- but some people may like this! I also had a BLT that was pretty good that comes with plain chips. Prices are just average. Not sure if I'll continue to come here for food, but I'd definitely come back for a happy hour.

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

0

Well done Saint Louis. I didn't dream of having a Boiling Crab-esque restaurant out here, but here I am. Mad Crab met my expectations and then some. The "whole shabang" (aka: whole shebang) medium and mild seasoning was amazing! The half dozen oysters tasted beautifully fresh and the staff were gracious in my requests for salt and pepper and hella limes.

I think this is a great first date place! Take advantage of the fact that you and your date can get messy together in a fun and casual setting! And, if he/she doesn't like cajun seafood, you know they're not the one!

My advice to the management, if they read reviews, is to have their wait staff add that extra human touch by tying the bibs for their customers. Boiling Crab does that and that extra little service goes a long way. In addition, consider providing wet wipes for their customers with their check.

Overall, well done and I'll be sure to recommend Mad Crab to my Saint Louis friends.

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

1

Simply delicious and worth the wait. Not a super fan of their bacon, it tastes

like cheap meat, but EVERYTHING ELSE is awesome. This most recent visit I had the Migas and it was fantastic. This is one of the best breakfast joints in town!

The ambience is fun and the service is good too!

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

1

Well prepared, creative, fresh food in a casual fun atmosphere. Good drinks. Great prices.

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

1

This is one fun Irish bar.

theres always a good crowd there, and a fun atmosphere

maybe it's the \$5 PBR pitchers?

whatever it is there's always something going on here.

iv'e never seen so much Jager juggled in one place haha

check this place out! your'e guaranteed to have a good time!!

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

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Located in what was once an old car factory, now a Furniture Mall for Interior Decorators. The decor is somewhat amusing. The ambience was nice despite that someone had to bring their yowling babe (and at 9 PM!) The waiter was nice and sat us away from the squalling babe. We ate Degustation, which is reasonable compared to many Prix Fix restaurants.

I ate there with a friend who is a chef. The melon, cucumber and mint soup was a little bitter. The corn soup was just right. The pate was curiously bland, needing something. The Salmon Tartare was good. The Divers Scallops had a curious bitter under taste. my friend believes that they were not fresh but had some preservative. The steak frites was fine, a little bland. The cheese plate was delicious and the desert was very good.

Overall, the food was nothing to write home about. The staff was friendly and polite. The table of young ladies were a bit much with their cackling. And is it too much to ask you keep your infants home with a sitter?

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

0

After hearing a lot about this place and driving by it constantly, I finally decided to make a trip with my fiance. Upon entering it has a nice, casual, amusing look. There are many humorous signs on the walls and it is very clean.

Wait staff is very welcoming and kind. It didn't take too long to get our drinks ordered and they gave us plenty of time to look over the surprisingly large menu. Most items are fairly well priced but some of the BBQ combos can be a little on the high side at \$17.99.

With that said, I ordered the Hogwild Combo and my fiance ordered the BBQ Rib plate. Portions are generous and well plated. The pulled pork was absolutely

amazing, while the chicken was extremely dry and needed a sip of your drink just to be able to swallow it. This happens with BBQ sometimes, and will not deter me from ordering the chicken again. The ribs were also quite good. Mine were not dry at all and came off the bone marvelously, no tug at all. My fiance's ribs were good as well, but the end of her slab was very thin, thus resulting in a few much drier ribs (the part of the ribs that were center cut were quite good).

Overall the food had excellent flavor and was not overly smoked. The corn on the cob was fantastic, as was the thick, Texas Toast style Garlic bread served with the meal. The fries are seasoned just enough and went extremely well with their ranch.

Overall this was a fantastic meal. I would have liked if the combo plates were slightly less, but it will not stop me from going back and getting the same thing again. Next time I will try the brisket, as they were out of it tonight.

I would recommend this to anyone who likes BBQ, and fitting for the entire family!

Also, I provided pictures of every page on the menu. I hope they help!
Does this review have positive or negative sentiment? (pos: 1, neg: 0)

1

The food was decent, if a little bland, and we didn't quite get what we ordered, and the bread wasn't as good as we had hoped for. I think it wasn't that fresh, and it definitely wasn't warm. We were also there at a funny time. While the staff was trying hard, they were obviously distracted by other duties. The recycled Chapalas booths are amusing.

We may try it again during a more "normal" time of day.
Does this review have positive or negative sentiment? (pos: 1, neg: 0)

0

Don't expect to walk out feeling light and healthy. But do expect a satisfying meal!

The cheery interior, perfect location, and constant crowd drew me in on a stroll down 18th. On my first visit, I started with sweet potato fries and a groothie smoothie. Both were winners in my book.

But, next week came the challenge - Pleasing my meat and potatoes husband. On the cashier's recommendation we went with the Crispy Ranch and Buffalo 'bella, along with fries and green lemonade. Everything was good, but left us feeling greasy. The sauces were impressively creamy and the fake meat spot-on. But was it better than a burger? Probably not. Was it healthier? Debatable.

Next time, I will try something not fried. And there certainly will be a next time, because I need to try the delicious looking banana whip. And because, even if you leave greasy, you feel a bit better about yourself.
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I enjoyed my dinner at grand isle. We came in with a party of 12 and sampled many things off the menu, I recommend:

-oysters Rockefeller

-raw oysters

-baked calamari

-gumbo

-new orleans ribs

-red fish and crab

Service: fast and friendly

Price: \$\$

Ambiance: cheerful and open, its located on cute Fulton Street.

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

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Great coffee and offers breakfast and lunch. I had the Croissant BBQ sandwich with chips and pickle yesterday. Excellent sandwich. Many hot and cold coffee choices as well as other offerings. I had only been thru the drive thru until yesterday and was very pleasantly surprised at the cheerful woodsy decor. Staff are friendly and accommodating. Will definitely be a frequent customer.

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Wow, where to start...the drinks, food and service were all FANTASTIC.

Nicole ordered the veggie lasagna and I had the shrimp/chorizo combo. We both liked our own meals the best =)

After 4 days in Tahoe, it's funny that our favorite meal was in Reno. Great job chef!

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Someone had the audacity to open a place called Breakfast, and not even serve breakfast food. They have a couple scones and donuts, but I'm not sure if having those two items constitute enough to calling a whole coffee shop "Breakfast". It's not ironic enough to be funny, it's just annoying. The vegan doughnut dense and heavily sweet, but pretty good. ALSO they don't have a telephone number, which just adds to the annoyance of this place. The expensive coffee, annoying name, and "too cool" vibe you get from this place outweighs the slightly above mediocre doughnut.

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I'm thrilled that I finally found this place. The tacos are extraordinary, especially the fish and tofu. Spicy in a good way. It's funny how the name starts with "Soy" but you have to ask for tofu (since it's not on the menu). Owners are delightful. It's all about the special sauces - yum yum gimme some!

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South Ocean's website is most definitely deceiving. It gives the impression of a lush Asian Experience.

Reality is much different than the Matrix...

I would call this dive sushi in a Chandler-esque manner. This place is not for the faint of heart...or even the local food inspector.

While the Lexis Roll really is a fantastic creation (tuna, salmon, avocado, spicy sauce and an exotic presentation, the rest of the really sushi is just passable...if you can't get sushi anywhere else.

The staff is courteous. The clientele is amusing. Don't come for the sushi.

I'm still on the hunt for good sushi in suburban Philly. I may have to break down and actually head into the City.

More to follow...

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

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My favorite breakfast place in the city. The staff are extremely kind - my sister brought her 10 month old daughter who found it extremely amusing to throw napkins on the ground. The one waitress, who wasn't even assigned to our table, kept helping us pick up what she dropped.

GET THE LATKES. And anything else.

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

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Nice store, helpful employees, I agree w/ the lady who said she feels out of place there. I also do. My hubby is blue collar and this area is mostly inhabited by the rich & privileged. The prices are OK on produce but the canned goods etc are way overpriced. The baked goods are way too sweet, so stay away from those unless you don't bake, in that case you might think they are good. But those of us who bake know better. (smile)

The meats and seafood are excellent. I also find it amusing how customers, even capable strong men allow the clerks to carry their one light bag to their car! I only shop there occasionally since I'm not the typical Chadds Ford resident and like to buy on sale.

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This is a welcomed surprise for University City. Really enjoy the crab, bib, glove, bucket of beer experience. It's great fun to eat with your hands once in a while. But, I found it pricey. Especially considering it's located right next to an Asian seafood market where you can get the same ingredients at a fraction of the cost. Would love to see the price point decrease. Would make the experience a little more palatable.

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What a fun experience. Great tacos. Outdoor dining and no liquor license but the market next door has plenty of ice cold Modelo to go. They close at 5:00 so

dinner may be a problem but for a delicious lunch you cannot be wrong.
Does this review have positive or negative sentiment? (pos: 1, neg: 0)

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Went to the soft opening and boy were we blown away. The cocktails were amazing, fresh and extremely creative. The food however was the absolute showstopper! Absolutely delicious!!! Keep up the good work and y'all will have a line around the block. Service from Alex and the rest of the team was top notch. Thanks again and cheers!

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

1

I had lunch here a couple of months ago. I chose a dish from their Chinese lunch menu and it included the main dish plus soup and rice (I had fried rice and hot/sour soup). All of it was good and I was satisfied for about \$7. Not too shabby.

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

1

We've been to almost every greek restaurant in NOLA area and this is the BEST GREEK FOOD in town. The gyro platter is my favorite and what i like the most is that the portions are so good that i always take the leftovers home. The falafel is so delicious too. I can eat here everyday :)

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

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A gem of a restaurant tucked away in a small strip plaza that is much larger than it first looks. Our server John was very attentive & friendly. He had a great number of regular patrons that he greeted & already knew their drinks of choice. They all seemed so happy to see John. I was amazed how many regulars were there. Do make a reservation since every table was occupied plus a few couples waited at the bar.

The food was tasty & visually a delight. My pork tenderloin was excellent. Only reason why no 5 star was the bread pudding. I overheard a woman tell her server that the bread pudding was too doughy. I second the motion. It was doughy & very dense. It needed a few raisins to break up the dense texture.

Everyone around us was ordering the chicken Marsala so that will be my next visit meal. Happy hour on Saturday was 4-7

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

1

This restaurant is beautiful and the food is amazing! The house bread is so yummy, as well as the house sangria. The atmosphere is very swanky with well dressed good looking people at every table. My only complaint is that we sat for 15- 20 mins without a wine list, menu, and water when we were seated. For the price, I expect better service. I will try it again.

Does this review have positive or negative sentiment? (pos: 1, neg: 0)

1

Really great foodie dive. The Abyssinia special is your best bet. It is essentially a sampler platter with plenty for 2. We still filled a to go box. Add on 2 spiced teas and your whole bill with tip is only \$20. They have all

your favorite Ethiopian homestyle dishes served ip with fresh injera.
Does this review have positive or negative sentiment? (pos: 1, neg: 0)

1

Manual labels complete.

```
[17]: review_sent_system = reviews
rev_sent_sys = []

for line in review_sent_system:
    review = line['text']

    user_message = f"For the following restaurant review, determine if the
↪review has \
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    otherwise 0. Review: {review}"

    messages = [ {'role':'system', 'content': "You are a helpful assistant"},
                  {'role':'user', 'content': user_message}]

    response = get_completion_from_messages(messages)
    print(response)
    time.sleep(20)
    if '1' in response:
        line['label'] = 1
        rev_sent_sys.append(1)
    if '0' in response:
        line['label'] = 0
        rev_sent_sys.append(0)

print("System labels complete. \n")
```

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System labels complete.

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```
[25]: acc2 = accuracy(rev_sent_man, rev_sent_sys)
print("Accuracy on a scale of 0 to 1: ", acc2)
```

```

[0, 0, 0, 1, 0, 1, 1, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0,
0, 0]
[0, 0, 0, 1, 0, 1, 1, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0,
0, 0]
Accuracy on a scale of 0 to 1: 1.0

```

BONUS OPTION 2 Kid-friendly indication in reviews.

```
[19]: review_kids_manual = reviews

# Manually label
for line in review_sent_manual:
    print(line['text'])
    label = input('Does this review indicate a kid-friendly environemnt? (yes:↵
↵1, no: 0) \n')
    if label == 1:
        line['label'] = 1
    elif label == 0:
        line['label'] = 0

print("Manual labels complete. \n")

```

I usually don't like to visit new restaurants RIGHT when they open. I think they need some time to figure things out and get their servers trained to provide good service. However, we visited Livery immediately upon opening, since we love CRG restaurants, and it did NOT disappoint. We tried starters, entrees, desserts and drinks and all were excellent. The food had incredible flavors. The drinks were very well crafted (although the bartenders have been pretty slow each time we've visited) using 4+ ingredients. I can't say enough good things about the

food! The space is beautiful. I love the original brick mixed with lots of modern touches. It doesn't look like any other CRG restaurant. It has upbeat, loud music that lends to a fun bar atmosphere. With small plates moderately priced you can spend as little or as much as your budget allows. If you haven't checked it out yet it's definitely worth your time!

Does this review indicate a kid-friendly environment? (yes: 1, no: 0)

0

Saw them cooking tacos on the sidewalk outside of the restaurant , so that got our interest . We were urged to try them by a few employees standing outside . They were really friendly , but we wanted to sit down , so we went in . Everybody working there had some freaky makeup on for Halloween . Even the strolling musicians . Our waiter was top notch , had a great personality . I ordered the spicy mango chicken wings that were huge and tasty . My friend had the \$11 taco plate . Which consisted of 2 of the street tacos sold out front , plus beans and rice . The tacos were all pastor or pork tacos , which he said were delicious , but not abnormally large or small . Just 2 regular corn tortilla tacos . Could have been bigger for \$11 . The rice and beans were decent . Again not a huge portion . But decent enough . The musicians were doing Spanish versions of American songs . And the atmosphere was super fun and the employees were friendly and truly seemed like they wanted to be there . Will definitely be back . The 2 tacos had to be the same kind and there was an upheaved for certain tacos , which weren't mentioned on the menu , but our waiter did tell us . Even Qdoba will give you different tacos . For the employees and the taste , we will be back . For the value and the stupid 1 type of taco rule , they get a 1 star deduct . Way more inventive menu than most Mexican restaurants in the area . I eat out , pretty much everyday of my life , and this one will be in my rotation when I'm in Edwardsville .

Does this review indicate a kid-friendly environment? (yes: 1, no: 0)

0

This place has excellent service, wonderful food and a fun atmosphere! Everything I have ever had has been cooked correctly and delicious. The cocktails are not over priced like most in Philadelphia. A yummy martini runs about \$8. Try the Ruby Red Champagne Cosmo! You'll go back for that alone!

I will continue to spend my hard earned money here.

Does this review indicate a kid-friendly environment? (yes: 1, no: 0)

0

Typical pub food that isn't anything to drool over. The nightlife here is what probably keeps this place alive. Being near Ursinus College, the weekends attract a large college crowd with a fun environment. They have a fun outside "beachy" area with lights and games and you can sit at a table and eat out there too. It's always packed though. The only downside is you're staring at a parking lot while you're out there and a shopping center, but hey, that's what you're going to get for Collegeville. The staff is always friendly and they have a decent drink selection. If you want to come without the crowds, come during the day. It's fairly empty (or at least not packed). It is no fine dining, but the food isn't bad. The rib sandwich is pretty good which I'd recommend, although there were a lot of fatty areas- but some people may like this! I also had a BLT

that was pretty good that comes with plain chips. Prices are just average. Not sure if I'll continue to come here for food, but I'd definitely come back for a happy hour.

Does this review indicate a kid-friendly environemnt? (yes: 1, no: 0)

0

Well done Saint Louis. I didn't dream of having a Boiling Crab-esque restaurant out here, but here I am. Mad Crab met my expectations and then some. The "whole shabang" (aka: whole shebang) medium and mild seasoning was amazing! The half dozen oysters tasted beautifully fresh and the staff were gracious in my requests for salt and pepper and hella limes.

I think this is a great first date place! Take advantage of the fact that you and your date can get messy together in a fun and casual setting! And, if he/she doesn't like cajun seafood, you know they're not the one!

My advice to the management, if they read reviews, is to have their wait staff add that extra human touch by tying the bibs for their customers. Boiling Crab does that and that extra little service goes a long way. In addition, consider providing wet wipes for their customers with their check.

Overall, well done and I'll be sure to recommend Mad Crab to my Saint Louis friends.

Does this review indicate a kid-friendly environemnt? (yes: 1, no: 0)

0

Simply delicious and worth the wait. Not a super fan of their bacon, it tastes like cheap meat, but EVERYTHING ELSE is awesome. This most recent visit I had the Migas and it was fantastic. This is one of the best breakfast joints in town!

The ambience is fun and the service is good too!

Does this review indicate a kid-friendly environemnt? (yes: 1, no: 0)

0

Well prepared, creative, fresh food in a casual fun atmosphere. Good drinks. Great prices.

Does this review indicate a kid-friendly environemnt? (yes: 1, no: 0)

0

This is one fun Irish bar.

theres always a good crowd there, and a fun atmosphere
maybe it's the \$5 PBR pitchers?

whatever it is there's always something going on here.

iv'e never seen so much Jager jugged in one place haha

check this place out! your'e guaranteed to have a good time!!

Does this review indicate a kid-friendly environemnt? (yes: 1, no: 0)

0

Located in what was once an old car factory, now a Furniture Mall for Interior Decorators. The decor is somewhat amusing. The ambience was nice despite that someone had to bring their yowling babe (and at 9 PM!) The waiter was nice and sat us away from the squalling babe. We ate Degustation, which is reasonable

compared to many Prix Fix restaurants.

I ate there with a friend who is a chef. The melon, cucumber and mint soup was a little bitter. The corn soup was just right. The pate was curiously bland, needing something. The Salmon Tartare was good. The Divers Scallops had a curious bitter under taste. my friend believes that they were not fresh but had some preservative. The steak frites was fine, a little bland. The cheese plate was delicious and the desert was very good.

Overall, the food was nothing to write home about. The staff was friendly and polite. The table of young ladies were a bit much with their cackling. And is it too much to ask you keep your infants home with a sitter?

Does this review indicate a kid-friendly environemnt? (yes: 1, no: 0)

1

After hearing a lot about this place and driving by it constantly, I finally decided to make a trip with my fiance. Upon entering it has a nice, casual, amusing look. There are many humorous signs on the walls and it is very clean.

Wait staff is very welcoming and kind. It didn't take too long to get our drinks ordered and they gave us plenty of time to look over the surprisingly large menu. Most items are fairly well priced but some of the BBQ combos can be a little on the high side at \$17.99.

With that said, I ordered the Hogwild Combo and my fiance ordered the BBQ Rib plate. Portions are generous and well plated. The pulled pork was absolutely amazing, while the chicken was extremely dry and needed a sip of your drink just to be able to swallow it. This happens with BBQ sometimes, and will not deter me from ordering the chicken again. The ribs were also quite good. Mine were not dry at all and came off the bone marvelously, no tug at all. My fiance's ribs were good as well, but the end of her slab was very thin, thus resulting in a few much drier ribs (the part of the ribs that were center cut were quite good).

Overall the food had excellent flavor and was not overly smoked. The corn on the cob was fantastic, as was the thick, Texas Toast style Garlic bread served with the meal. The fries are seasoned just enough and went extremely well with their ranch.

Overall this was a fantastic meal. I would have liked if the combo plates were slightly less, but it will not stop me from going back and getting the same thing again. Next time I will try the brisket, as they were out of it tonight.

I would recommend this to anyone who likes BBQ, and fitting for the entire family!

Also, I provided pictures of every page on the menu. I hope they help!

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The food was decent, if a little bland, and we didn't quite get what we ordered,

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Everyone around us was ordering the chicken Marsala so that will be my next visit meal. Happy hour on Saturday was 4-7

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