Part 2A.

hello AI

**ChatGPT said:**

Hello! How can I help you today?

4o

**You said:**

I am working on a project in My Digital humanities class. We have done basic level of python coding for Using gazetteer and regex to extract places in Gaza from the corpus. If I get any confusion while coding, i will ask you

**ChatGPT said:**

Updated saved memory

Sounds great! Feel free to reach out anytime you get stuck or need help understanding something. What part are you working on right now?

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**You said:**

# Convert the data rows into a DataFrame (table) df = pd.DataFrame(rows, columns=column\_lit) this code is generating an error

**ChatGPT said:**

Got it — that line is trying to create a Pandas DataFrame from a list of rows and a list of column names. If it's throwing an error, it's likely due to a mismatch between the structure of rows and column\_lit.

Here's what you can check:

1. **Is rows a list of lists or tuples?**  
   Each item in rows should be a list or tuple where the length matches the number of items in column\_lit.

Example:

python

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rows = [

['Gaza City', '2024-10-01', 5],

['Khan Younis', '2024-10-01', 3]

]

column\_lit = ['place', 'date', 'count']

1. **Is column\_lit a list of strings?**  
   It should look like:

python

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column\_lit = ['place', 'date', 'count']

1. **Example of correct usage:**

python

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import pandas as pd

rows = [

['Gaza City', '2024-10-01', 5],

['Khan Younis', '2024-10-01', 3]

]

column\_lit = ['place', 'date', 'count']

df = pd.DataFrame(rows, columns=column\_lit)

If you share the full error message or the values of rows and column\_lit, I can give you a more exact fix. Would you like to do that?

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**You said:**

oh, sorry itsis the typo error. I had to write list

**ChatGPT said:**

Ah, that makes sense! Typos like that sneak in all the time — glad you caught it.

So just to confirm, you meant to write:

python

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df = pd.DataFrame(rows, columns=column\_list)

If you run into any more issues or need help cleaning or analyzing the data in your DataFrame, I’m here for it. Are you planning to visualize the place mentions too?

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**You said:**

# Escape any special characters in names for regex escaped\_variants = [re.escape(name) for name in name\_variants] # Create a regex pattern that matches any of the name variants # \b ensures whole-word matches only pattern = r"\b(" + "|".join(escaped\_variants) + r")\b" # Store the regex pattern and initialize count to 0 patterns[asciiname] = {"pattern": pattern, "count": } another error

**ChatGPT said:**

You're close — the issue is in this line:

python

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patterns[asciiname] = {"pattern": pattern, "count": }

You're missing a value after "count":. Python is expecting you to assign something there (like 0), but it’s empty, so it throws a SyntaxError.

To fix it, just initialize the count to 0 like this:

python

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patterns[asciiname] = {"pattern": pattern, "count": 0}

Let me know if you're planning to use this patterns dictionary for matching text later — I can help you write the matching loop too if you'd like.

4o

**You said:**

oh, got it. the 0 is missing

**ChatGPT said:**

Exactly! Just that little 0 missing — an easy fix.

If you need help applying these patterns to your text or counting matches, just let me know. Are you processing multiple articles or just one big text file?

4o

**You said:**

there are multiple articles

**ChatGPT said:**

Perfect — working with multiple articles gives you a lot of flexibility for tracking mentions over time or by source.

If you're looping through multiple articles, you’ll likely want something like this structure:

python

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for article in articles:

text = article['text'] # or however you're accessing the article content

for place, info in patterns.items():

matches = re.findall(info['pattern'], text)

patterns[place]['count'] += len(matches)

This will update the count for each place based on how many times it appears in each article.

Are you also recording which article or date each mention comes from, or just the total counts?

4o

**You said:**

okay. thanks for this extra codes, I’m good to go.

**ChatGPT said:**

You're very welcome! Think of me as your built-in TA 😄 — always here when you need help.

Whenever you're ready to map, analyze, or even export the results, just give me a shout. Good luck, and keep up the great work on your project!

LOL!! Is this helping me learn, or just helping me finish?"

**ChatGPT said:**

Haha, I love that question! My goal is definitely to help you *learn* — not just finish. Think of it like this: each time we troubleshoot or write code together, you're building understanding and skills that’ll stick with you. 😊

So, if you’re ever in doubt, just ask "why?" or "how does this work?" — I’ll help you dive deeper into the concepts.

Are you finding it useful, or do you feel like you want more of the "why" behind the code?

Part 4A

**You:**  
I'm running the code to generate the map, but the place names are showing up in Farsi. I want them in English.

**ChatGPT:**  
That’s likely because the default Mapbox style includes local labels, which sometimes appear in the native script like Farsi. You can fix this by using a map style that forces English labels.

Try changing your mapbox\_style to "carto-positron", which is a clean style with English place names. Here’s how you do it:

python

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mapbox\_style="carto-positron" # Selected with help from ChatGPT for English map labels

Let me know if that solves the issue.