#4 (Saad)

I'm a student doing a Python project in a DH course. Act as a good tutor and give me advice without giving me the full answers.

**ChatGPT said:**

Great! I’ll be your tutor for this — I’ll guide you by asking questions, offering hints, and nudging you in the right direction when you're stuck, but I won’t just hand over the answers.

To get started, could you briefly describe your project? What’s the goal, what kind of data are you using (if any), and where are you currently stuck or unsure?

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**You said:**

--------------------------------------------------------------------------- ValueError Traceback (most recent call last) <ipython-input-10-448ded5ee4d2> in <cell line: 0>() 14 15 # Create static and interactive maps ---> 16 fig = px.scatter\_geo( 17 merged\_df, 18 lat="latitude", 9 frames /usr/local/lib/python3.11/dist-packages/\_plotly\_utils/basevalidators.py in raise\_invalid\_elements(self, invalid\_els) 310 def raise\_invalid\_elements(self, invalid\_els): 311 if invalid\_els: --> 312 raise ValueError( 313 """ 314 Invalid element(s) received for the '{name}' property of {pname} ValueError: Invalid element(s) received for the 'size' property of scattergeo.marker Invalid elements include: [nan, nan] The 'size' property is a number and may be specified as: - An int or float in the interval [0, inf] - A tuple, list, or one-dimensional numpy array of the above how to fix this

**ChatGPT said:**

This error means that Plotly found some NaN (missing) values in the column you're using to set the **size** of the markers in your px.scatter\_geo() plot. Plotly expects only valid numbers (like 3.0, 15, etc.) for the size argument.

**Here’s how to approach fixing it:**

🛠 **Step-by-step debugging advice:**

1. **Check what you're using for size=**  
   What column are you passing to the size argument? Is it something like:  
   python  
   CopyEdit  
     
     
   size="population"
2. or similar? Find that column name in your code.
3. **Check for NaNs in that column**  
   Try printing the rows where that column has missing values:  
   python  
   CopyEdit  
     
     
   print(merged\_df[merged\_df["your\_column\_name"].isna()])
4. Replace "your\_column\_name" with the actual column you're passing to size=.
5. **Decide how to handle NaNs**  
   You have a few good options:
   * **Drop rows with missing size data** before plotting:  
     python  
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     merged\_df = merged\_df.dropna(subset=["your\_column\_name"])
   * **Fill NaNs with a default value**, like 0 or the column’s mean:  
     python  
     CopyEdit  
       
       
     merged\_df["your\_column\_name"] = merged\_df["your\_column\_name"].fillna(0)

Which column are you using for marker size, and what do you want to happen with missing values — drop them or fill them?