TypeError Traceback (most recent call last)

Cell In[23], line 4

**1** # Cell 12: Main Execution

**2** **if** \_\_name\_\_ == '\_\_main\_\_':

**3** # Run full analysis

----> 4 result\_df, performance\_analysis = full\_analysis()

Cell In[22], line 11, in full\_analysis()

**8** create\_visualizations(result\_df)

**10** # Generate detailed report

---> 11 generate\_detailed\_report(result\_df)

**13** # Evaluate performance

**14** performance\_analysis = evaluate\_performance(result\_df)

Cell In[20], line 8, in generate\_detailed\_report(result\_df)

**5** score\_columns = [col **for** col **in** result\_df.columns **if** col **not** **in** ['Acronym', 'Full Name', 'Acronym Formation Score']]

**7** # Calculate performance metrics

----> 8 avg\_scores = result\_df[score\_columns].mean().sort\_values(ascending=**False**)

**9** std\_scores = result\_df[score\_columns].std()

**11** # Initialize report

File /opt/conda/lib/python3.11/site-packages/pandas/core/frame.py:11338, in DataFrame.mean(self, axis, skipna, numeric\_only, \*\*kwargs)

**11330** @doc(make\_doc("mean", ndim=2))

**11331** **def** mean(

**11332** self,

(...)

**11336** \*\*kwargs,

**11337** ):

> 11338 result = super().mean(axis, skipna, numeric\_only, \*\*kwargs)

**11339** **if** isinstance(result, Series):

**11340** result = result.\_\_finalize\_\_(self, method="mean")

File /opt/conda/lib/python3.11/site-packages/pandas/core/generic.py:11978, in NDFrame.mean(self, axis, skipna, numeric\_only, \*\*kwargs)

**11971** **def** mean(

**11972** self,

**11973** axis: Axis | **None** = 0,

(...)

**11976** \*\*kwargs,

**11977** ) -> Series | float:

> 11978 **return** self.\_stat\_function(

**11979** "mean", nanops.nanmean, axis, skipna, numeric\_only, \*\*kwargs

**11980** )

File /opt/conda/lib/python3.11/site-packages/pandas/core/generic.py:11935, in NDFrame.\_stat\_function(self, name, func, axis, skipna, numeric\_only, \*\*kwargs)

**11931** nv.validate\_func(name, (), kwargs)

**11933** validate\_bool\_kwarg(skipna, "skipna", none\_allowed=**False**)

> 11935 **return** self.\_reduce(

**11936** func, name=name, axis=axis, skipna=skipna, numeric\_only=numeric\_only

**11937** )

File /opt/conda/lib/python3.11/site-packages/pandas/core/frame.py:11207, in DataFrame.\_reduce(self, op, name, axis, skipna, numeric\_only, filter\_type, \*\*kwds)

**11203** df = df.T

**11205** # After possibly \_get\_data and transposing, we are now in the

**11206** # simple case where we can use BlockManager.reduce

> 11207 res = df.\_mgr.reduce(blk\_func)

**11208** out = df.\_constructor\_from\_mgr(res, axes=res.axes).iloc[0]

**11209** **if** out\_dtype **is** **not** **None** **and** out.dtype != "boolean":

File /opt/conda/lib/python3.11/site-packages/pandas/core/internals/managers.py:1459, in BlockManager.reduce(self, func)

**1457** res\_blocks: list[Block] = []

**1458** **for** blk **in** self.blocks:

-> 1459 nbs = blk.reduce(func)

**1460** res\_blocks.extend(nbs)

**1462** index = Index([**None**]) # placeholder

File /opt/conda/lib/python3.11/site-packages/pandas/core/internals/blocks.py:377, in Block.reduce(self, func)

**371** @final

**372** **def** reduce(self, func) -> list[Block]:

**373** # We will apply the function and reshape the result into a single-row

**374** # Block with the same mgr\_locs; squeezing will be done at a higher level

**375** **assert** self.ndim == 2

--> 377 result = func(self.values)

**379** **if** self.values.ndim == 1:

**380** res\_values = result

File /opt/conda/lib/python3.11/site-packages/pandas/core/frame.py:11139, in DataFrame.\_reduce.<locals>.blk\_func(values, axis)

**11137** **return** np.array([result])

**11138** **else**:

> 11139 **return** op(values, axis=axis, skipna=skipna, \*\*kwds)

File /opt/conda/lib/python3.11/site-packages/pandas/core/nanops.py:147, in bottleneck\_switch.\_\_call\_\_.<locals>.f(values, axis, skipna, \*\*kwds)

**145** result = alt(values, axis=axis, skipna=skipna, \*\*kwds)

**146** **else**:

--> 147 result = alt(values, axis=axis, skipna=skipna, \*\*kwds)

**149** **return** result

File /opt/conda/lib/python3.11/site-packages/pandas/core/nanops.py:404, in \_datetimelike\_compat.<locals>.new\_func(values, axis, skipna, mask, \*\*kwargs)

**401** **if** datetimelike **and** mask **is** **None**:

**402** mask = isna(values)

--> 404 result = func(values, axis=axis, skipna=skipna, mask=mask, \*\*kwargs)

**406** **if** datetimelike:

**407** result = \_wrap\_results(result, orig\_values.dtype, fill\_value=iNaT)

File /opt/conda/lib/python3.11/site-packages/pandas/core/nanops.py:720, in nanmean(values, axis, skipna, mask)

**718** count = \_get\_counts(values.shape, mask, axis, dtype=dtype\_count)

**719** the\_sum = values.sum(axis, dtype=dtype\_sum)

--> 720 the\_sum = \_ensure\_numeric(the\_sum)

**722** **if** axis **is** **not** **None** **and** getattr(the\_sum, "ndim", **False**):

**723** count = cast(np.ndarray, count)

File /opt/conda/lib/python3.11/site-packages/pandas/core/nanops.py:1678, in \_ensure\_numeric(x)

**1675** inferred = lib.infer\_dtype(x)

**1676** **if** inferred **in** ["string", "mixed"]:

**1677** # GH#44008, GH#36703 avoid casting e.g. strings to numeric

-> 1678 **raise** **TypeError**(f"Could not convert **{**x**}** to numeric")

**1679** **try**:

**1680** x = x.astype(np.complex128)

TypeError: Could not convert ['OtherExact First LettersOtherExact First LettersOtherOtherOtherOtherOtherOtherOtherExact First LettersExact First LettersOtherOtherOtherOtherExact First LettersOtherOtherExact First LettersOtherOtherOtherExact First LettersOtherOtherExact First LettersExact First LettersExact First LettersOtherOtherOtherOtherExact First LettersOtherOtherExact First LettersExact First LettersExact First LettersExact First LettersExact First LettersOtherOtherOtherExact First LettersExact First LettersExact First LettersExact First LettersOtherExact First LettersExact First LettersExact First LettersOtherExact First LettersOtherExact First LettersShortened FormOtherExact First LettersExact First LettersExact First LettersExact First LettersExact First LettersOtherExact First LettersExact First LettersOtherExact First LettersExact First LettersOtherExact First LettersOtherOtherShortened FormSpecial Pattern (Incorrect)Special Pattern (Incorrect)OtherOtherShortened FormOtherShortened FormOtherShortened FormShortened FormOtherOtherOtherShortened FormOther'] to numeric