

CODE REVIEW FOR TEAM 1

1. Unable to locate the main file to run the further commands. Unused testing python files are also present.
2. According to the CodeLab Document. We followed and installed the Requirements.txt and understood the work flow.

The steps are as follows :

- a. We must run the file that scrapes data first followed by the command to run Geos.py which eventually runs the whole Application. However while trying to run the retrieve file command we got the below error suggesting “Unable to locate Credentials” for both the retrieve files of Nexrad and Geos files.

The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with files like `Nexrad.py`, `retrieve_m...`, `url_genera...`, `great_expectations`, `data`, `expectations`, `goes18_suite.json`, `nexrad_suite.json`, `uncommitted`, `great_expectations...`, `logs`, `pages`, `pytest`, `results`, `_init_.py`, `.gitignore`, `Geos.py`, `goes_db.py`, `nexrad_db.py`, `README.md`, `requirements.txt`, `retrieve_metad...`, `retrieve_metad...`, and `url_generator.py`. The code editor shows a Python configuration file for Great Expectations. The terminal window at the bottom displays the following error:

```
return self._emit(event_name, **kwargs)
File "/Users/srivenkatasatyaaakhlmaladi/Downloads/Assignment1-main/.env/lib/python3.9/site-packages/botocore/hooks.py", line 256, in emit
return self._emit(event_name, kwargs)
File "/Users/srivenkatasatyaaakhlmaladi/Downloads/Assignment1-main/.env/lib/python3.9/site-packages/botocore/hooks.py", line 239, in _emit
response = handler(**kwargs)
File "/Users/srivenkatasatyaaakhlmaladi/Downloads/Assignment1-main/.env/lib/python3.9/site-packages/botocore/signers.py", line 105, in handler
return self.sign(operation_name, request)
File "/Users/srivenkatasatyaaakhlmaladi/Downloads/Assignment1-main/.env/lib/python3.9/site-packages/botocore/signers.py", line 189, in sign
auth.add_auth(request)
File "/Users/srivenkatasatyaaakhlmaladi/Downloads/Assignment1-main/.env/lib/python3.9/site-packages/botocore/auth.py", line 418, in add_auth
raise NoCredentialsError()
botocore.exceptions.NoCredentialsError: Unable to locate credentials
(.env) (base) srivenkatasatyaaakhlmaladi@Sris-MacBook-Air Assignment1-main %
```

```
10 # It is auto-generated and usually does not need to be changed.
11 config_version: 3.0
12
13 # Datasources tell Great Expectations where your data lives and how to get it.
14 # You can use the CLI command 'great_expectations datasource new' to help you
15 # add a new datasource. Read more at https://docs.greatexpectations.io/docs/guides/connecting\_to\_your\_data/connect\_to\_data\_overview
16 datasources:
17   goes18:
18     module_name: great_expectations.datasource
19     data_connectors:
20       default_inferred_data_connector_name:
21         default_regex:
22           group_names:
23             - data_asset_name
24             pattern: (.*)\.csv
25     module_name: great_expectations.datasource.data_connector
26     class_name: InferredAssetFilesystemDataConnector
27     base_directory: data
28     name: default_inferred_data_connector_name
29     default_runtime_data_connector_name:
30       assets:
31         my_runtime_asset_name:
32           module_name: great_expectations.datasource.data_connector.asset
33           batch_identifiers:
34             - runtime_batch_identifier_name
35
36 return self._emit(event_name, **kwargs)
37
38 File "/Users/srivenkatasatyaaakhlmalladi/Downloads/Assignment1-main/.env/lib/python3.9/site-packages/botocore/hooks.py", line 256, in emit
39   return self._emit(event_name, kwargs)
40 File "/Users/srivenkatasatyaaakhlmalladi/Downloads/Assignment1-main/.env/lib/python3.9/site-packages/botocore/hooks.py", line 239, in _emit
41   response = handler(**kwargs)
42 File "/Users/srivenkatasatyaaakhlmalladi/Downloads/Assignment1-main/.env/lib/python3.9/site-packages/botocore/signers.py", line 105, in handler
43   return self._sign(operation_name, request)
44 File "/Users/srivenkatasatyaaakhlmalladi/Downloads/Assignment1-main/.env/lib/python3.9/site-packages/botocore/signers.py", line 189, in _sign
45   auth.add_auth(request)
46 File "/Users/srivenkatasatyaaakhlmalladi/Downloads/Assignment1-main/.env/lib/python3.9/site-packages/botocore/auth.py", line 418, in add_auth
47   raise NoCredentialsError()
48 botocore.exceptions.NoCredentialsError: Unable to locate credentials
49
50 (env) (base) srivenkatasatyaaakhlmalladi@Sris-MacBook-Air Assignment1-main %
```

- b. We tried to run the Geos.py without running the above-mentioned files, while the application has been hosted it gave the below error.

```
AttributeError: module 'lib' has no attribute 'OpenSSL_add_all_algorithms'

Traceback:

File "/Users/srivenkatasatyaaakhlmalladi/opt/anaconda3/lib/python3.9/site-pack
exec(code, module.__dict__)

File "/Users/srivenkatasatyaaakhlmalladi/Downloads/Assignment1-main/Geos.py",
import boto3

File "/Users/srivenkatasatyaaakhlmalladi/opt/anaconda3/lib/python3.9/site-pack
from boto3.session import Session

File "/Users/srivenkatasatyaaakhlmalladi/opt/anaconda3/lib/python3.9/site-pack
import botocore.session

File "/Users/srivenkatasatyaaakhlmalladi/opt/anaconda3/lib/python3.9/site-pack
import botocore.client

File "/Users/srivenkatasatyaaakhlmalladi/opt/anaconda3/lib/python3.9/site-pack
from botocore import waiter, xform_name

File "/Users/srivenkatasatyaaakhlmalladi/opt/anaconda3/lib/python3.9/site-pack
from botocore.docs.docstring import WaiterDocstring

File "/Users/srivenkatasatyaaakhlmalladi/opt/anaconda3/lib/python3.9/site-pack
from botocore.docs.service import ServiceDocstring

File "/Users/srivenkatasatyaaakhlmalladi/opt/anaconda3/lib/python3.9/site-pack
from botocore.docs.client import ClientDocstring, ClientExceptionsDocumen

File "/Users/srivenkatasatyaaakhlmalladi/opt/anaconda3/lib/python3.9/site-pack
from botocore.docs.example import ResponseExampleDocstring
```

Comments:

While Geos.py file has basic comments as what is the purpose of the functions present, other files doesn't contain comments especially the .db files.

Great Expectations:

Missing steps are provided to Executed Great Expectations, other than how to install it, in the documentation.

Design:

- a. Should have opted for better structure.
- b. Should have opted for better naming convention.
- c. Should have designed in way we don't have to run multiple files to start the application.

NEXRAD MAP LOCATORS:

Used st.map() for plotting, could have used folium for better plotting.

