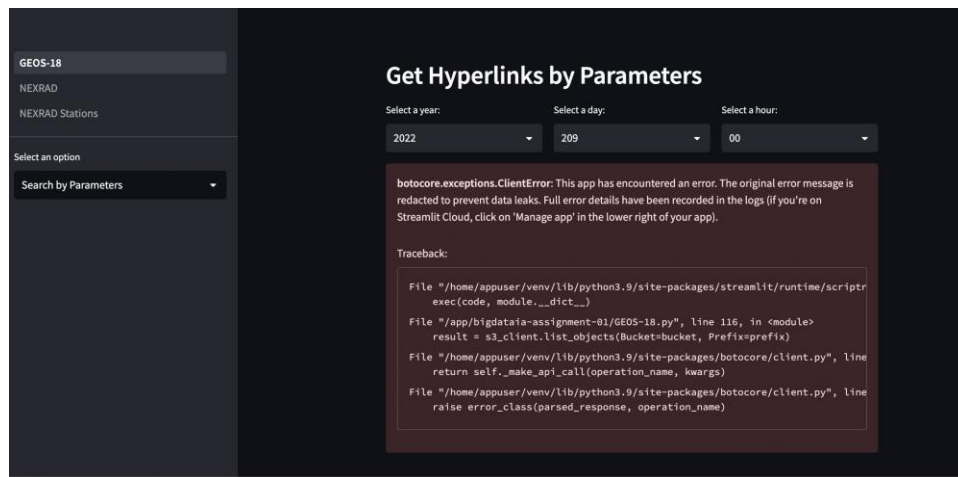


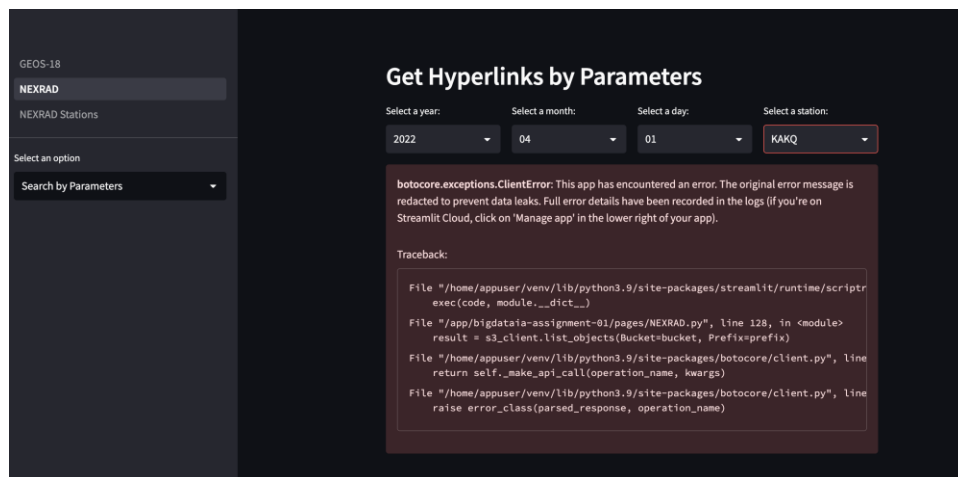
END USER REVIEW FOR TEAM 4

1. Initially, when the streamlit application was accessed we encountered the Botocore exception client error for each of the pages. For the hyperlinks to be generated by parameters got an exception for the boto.

GEOS:

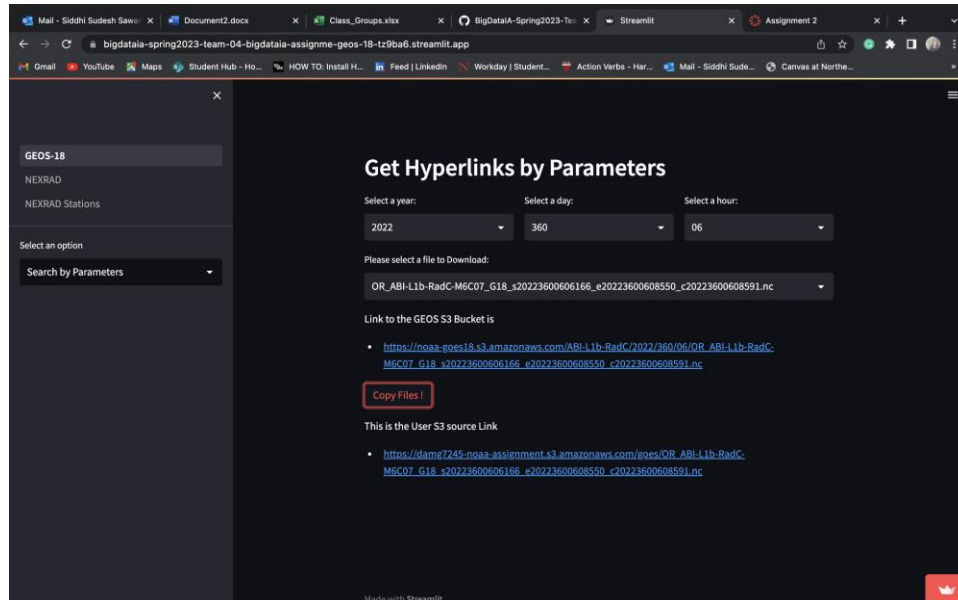


NEXRAD:

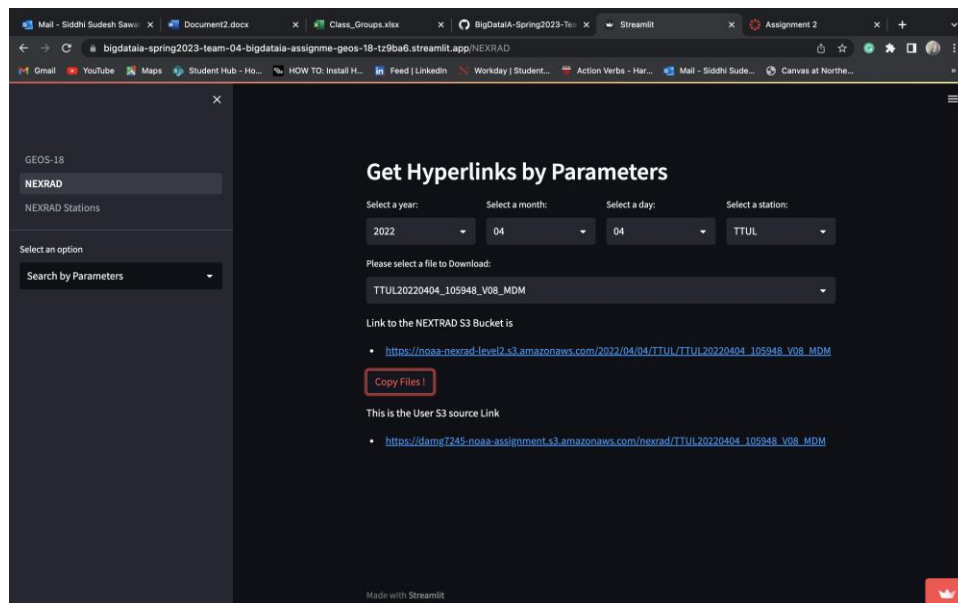


We got in touch with the team about the above issue, and they suggested that their AWS key has been exposed, therefore the needed to update that in streamlit cloud. After a while the application started running without the above error.

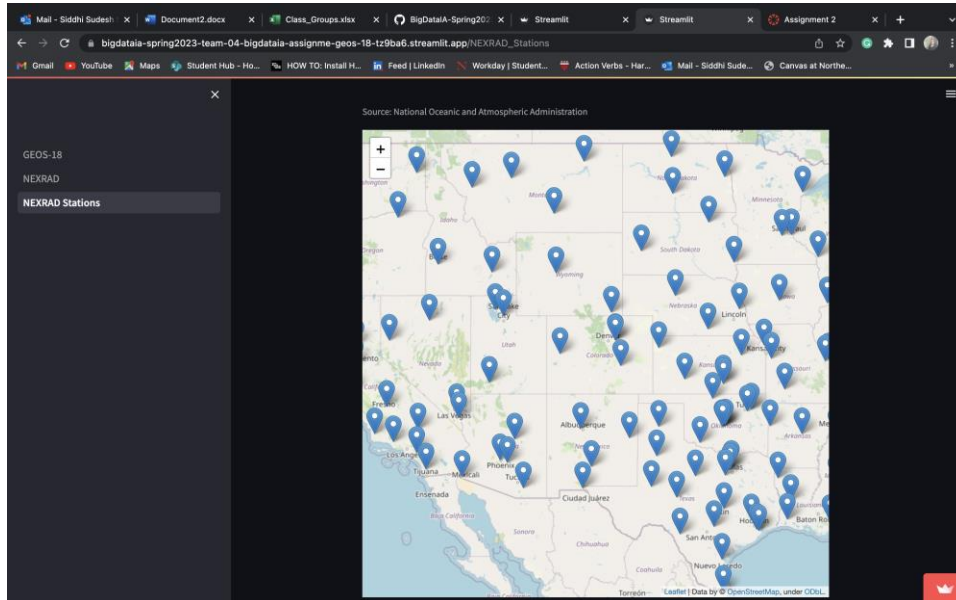
- For GOES, the downloadable link is generated within less time and it is also copying it to the user S3 bucket of the team, however if we are trying to regenerate the URL it is not checking the user S3 bucket and is not throwing any pop-ups for the link that is already present.



For the NEXRAD it is showing the same. As the link for the station which is already there in user S3 , repeatedly taking the same link as a new one and copying it to the user S3. The year since 1970 is populated, just 2022 and 2023 would have been ok.

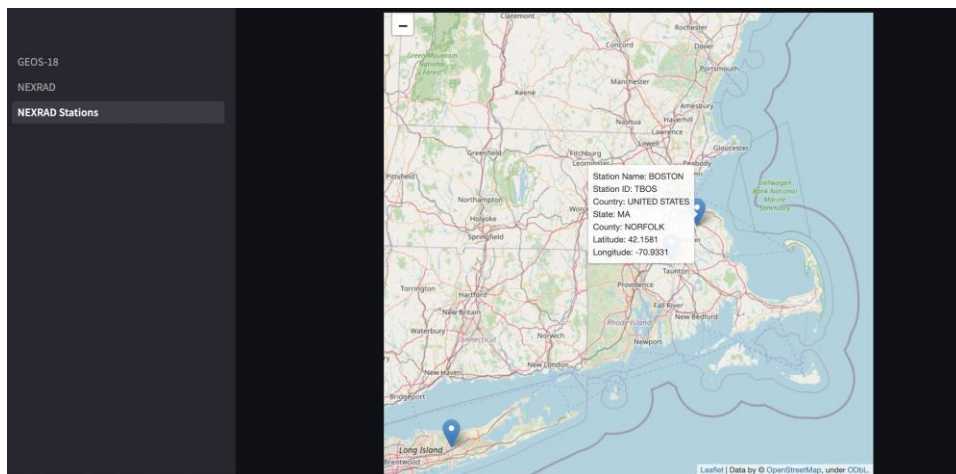


3. The Best thing we noticed for the pages, the option to select by Parameters and select by field feature is popping up for the downloadable links only and not for NEXRAD station, the feature over that page is disable.



4. Used folium

Kept the pointers for each NEXRAD station on every location and provided the information for each radar station while the user is trying to hover the station.



CASE1:

If searching by File Name for the NEXRAD the search field is search the same file in GOES as well.

The screenshot shows a web application interface with a dark theme. On the left, a sidebar contains a search bar with 'GEO-18' entered, a 'NEXRAD' button, and a 'NEXRAD Stations' section. Below this is a 'Select an option' dropdown menu with 'Search by File Name' selected. The main content area is titled 'Get Hyperlinks by Name'. It features a 'Name of File' input field containing 'FOP120230104_002515_V06'. Below the input, it states 'File found in NEXRAD S3 bucket!' and 'Link to the NEXRAD S3 Bucket is'. A list of links is shown, with the first one highlighted: https://noaa-nexrad-level7.s3.amazonaws.com/2023/01/04/FOP1/FOP120230104_002515_V06. A red 'Copy Files!' button is next to the link. Below this, it says 'This is the User S3 source Link' and shows another link: https://damg7245-noaa-assignment.s3.amazonaws.com/nexrad/FOP120230104_002515_V06. At the bottom, it says 'Made with Streamlit'.

If we immediately shift to GEO-18, Seems like it has done the search for this file name as well and returning us the below exception.

The screenshot shows the same web application interface, but the 'Select an option' dropdown menu is now set to 'Search by Parameters'. The main content area is titled 'Get Hyperlinks by Name'. It features a 'Name of File' input field which is empty. Below the input, a green message box states 'File not found in the goes18 S3 bucket.'. A 'Copy Files!' button is visible below the message. At the bottom, it says 'Made with Streamlit'.

Same missing feature for the files already present in the S3 bucket. No pop-ups or error is thrown for multiple copy files.

GEOS:

The screenshot shows the GEOS application interface. On the left sidebar, the 'GEOS-18' section is active, with 'NEXRAD' and 'NEXRAD Stations' listed below it. Under 'Select an option', the 'Search by File Name' dropdown is selected. The main content area is titled 'Get Hyperlinks by Name'. It features a text input field containing the file name 'OR_ABI-L1b-RadC-M6C01_G18_s20230020216172_e20230020218546_c20230020218589.nc'. Below the input, a message states 'File found in GEOS S3 bucket!'. A link to the GEOS S3 bucket is provided, followed by a bulleted list of the file's URL: https://noaa-goes18.s3.amazonaws.com/ABI-L1b-RadC/2023/002/02/OR_ABI-L1b-RadC-M6C01_G18_s20230020216172_e20230020218546_c20230020218589.nc. A 'Copy Files!' button is present. At the bottom, it says 'This is the User S3 source Link' and provides another URL: https://damg7245-noaa-assignment.s3.amazonaws.com/goes/OR_ABI-L1b-RadC-M6C01_G18_s20230020216172_e20230020218546_c20230020218589.nc.

NEXRAD:

The screenshot shows the NEXRAD application interface. The left sidebar is identical to the GEOS screenshot, with 'NEXRAD' selected. The main content area is titled 'Get Hyperlinks by Name'. The text input field is empty. Below it, a message states 'File not found in the NEXRAD S3 bucket.' A 'Copy Files!' button is present. At the bottom, there is a footer with the URL https://bigdataia-spring2023-team-04-bigdataia-assignme-geos-18-1z9ba6.streamlit.app/NEXRAD_Stations and the text 'Made with Streamlit'.