**08/24/2020 – 08/28/2020**

* The first thing I tried to do today was install the data. I immediately ran into issues.

A screenshot of a social media post

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* As you can see, there is no data here at all. I downloaded this and changed the calendar dates from Aug 1st to Aug 15th, but nothing came back in the .csv. I tried for hours to understand the html GET instructions and url ingestion stuff but I don’t know how to do that. Am I supposed to pull this information from an API? How?
* So, instead, I decided to download data from just the current day to see where I get.

A close up of text on a white background

Description automatically generated

* Once I had some data, I went into Jupyter on my local machine, and decided to see if I could work with this data somehow. I imported it and got it to read!
* The issue I ran into here, however, was that it read the header file and everything. Meanwhile all I wanted was the actual data values. So I learned a new trick to skip the header csv lines.

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* Using the next() function I skipped the lines of the header.

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* Once I had that all figured out, it was time to start storing these values into separate lists and then plotting them against each other.

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* Each list needed to be converted. For instance, Wind Speed needed to be converted to a list of floats before it could be sorted and plotted. Wind Direction meanwhile was an integer so I had to covert that separately. As for time, it’s a string, so I left it as is and sorted it as Python would a series of strings.
* I am not sure what I should do as far as time is concerned. Should I parse out the parts don’t matter? I would like further instruction on how to handle the times.
* I got the Wind Speed to plot neatly, but not the times! Until I figure out how to parse it and use it so its not a string, it comes out as a big jumble of crunched together letters. I’d like to try and parse up the time and covert it to an integer then plot it for a hopefully neater plot.

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I at least have a plot of some kind, which means the data ingestion and analysis is there, but I need to make sure this is accurate. My only doubts on this graph is the time, as Python has trouble sorting string values vs. integer values. i.e the string 10.9 would come right after 1 and before 2. When in reality, it should come after 2. So that’s what makes time being left a string an issue for now.

**Things I need to work on next week:**

* Parse the time data and see if I can get my graph to look better. Make the time variable accurate in terms of an integer value as opposed to sorting it as a string.
* Downloading Data (??)
* Figure out the installation of wind roses. You need a connection to GitHub for it but on my python terminal it doesn’t let me access GitHub yet.
* Axis/Legends to be cleaned up and neat.