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UCF Coding Bootcamp

July 20, 2020

Python API Weather Conclusion

After analyzing the data from the weather API, a conclusion was drawn that latitude may be a factor in certain weather conditions and not a factor in others.

1. When looking at “Latitude vs. Temperature Plot”, the scatter plot formed an arch. The apex of this arch consisted of the highest max temperatures are in areas that are between 0º and 40º. Also observed that majority of Max Temperatures and the highest of these max Temperatures are located in the northern hemisphere. However, this data only compares temperature and latitude, it excludes other factors such as land area. Missing data is the fact there is more land, to absorb heat, in the norther hemisphere.
2. While analysis “Latitude vs. Humidity Plot”, it appears that high and low levels of humidity are present in most latitudes. However, the low levels of humidity stay between -40º and 50º. Also observed, the majority of high levels of humidity more frequent between 60º and 80º.
3. The final observation is in the “Latitude vs. Cloudiness Plot”. The data shown in this scatter plot tells us that latitude does is a minimal factor when it comes to cloudiness. For the most part its most even spread throughout all cloudiness levels and latitudes, with the exception there is a higher concentration of high-level cloudiness between 60º and 80º.

In conclusion, Latitude was the biggest factor for temperatures, had a mild impact for humidity, and was a minimal factor for cloudiness. These findings are limited however since it does not take into effect land, topography, or wind/ocean currents.