Term Project Milestone #4: Cleaning/Formatting API Data

Ethical Implications

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DSC540-T301 Data Preparation (2233-1)

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May 21, 2023

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Ethical Implications

The weather information is from one of the many websites providing data as a downloadable dataset or through an Application Programming Interface (API). This website focuses on current weather conditions, forecasting, and historical observations.

VisualCrossing has 50 years of information and is retrievable by year, month, day, and hour using city and state. In this case, the minimum, maximum, and average temperatures and percentages for precipitation and cloud cover for today and tomorrow. The temperatures are converted from Kelvin to Fahrenheit and rounded to the nearest whole number. The cloud cover percentage is changed from clear skies to completely cloudy. A 2 line daily weather forecast is then created from the VisualCrossing information. Longitude and latitude are also included.

VisualCrossing requires an API key to access their data. There is a free key that limits the type of available information and allows for only 1000 retrievals/calls a day. For more robust information gathering, this site has tiered subscription services. There is also a student subscription between the free and tiered plans. This website has no other disclaimers or warnings, but the information is credited in the Reference section below and the Term Project Codebook.

<u>References</u>

Weather Data & API - Global Forecast & History Data

VisualCrossing Retrieved May 21, 2023

https://www.visualcrossing.com/