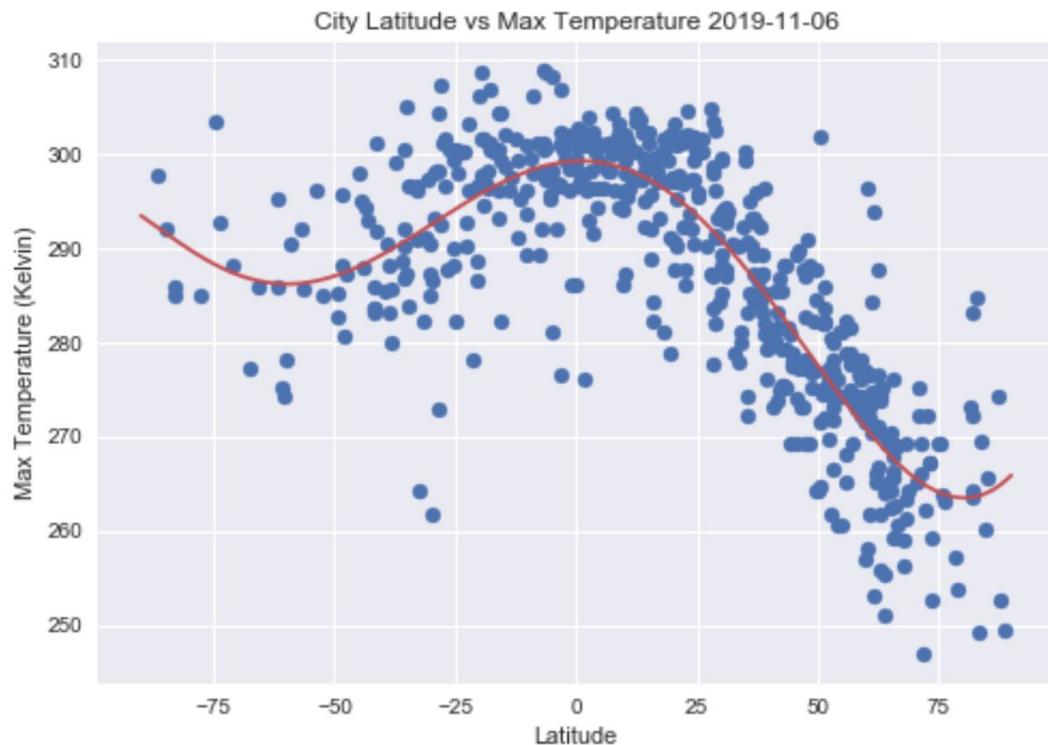
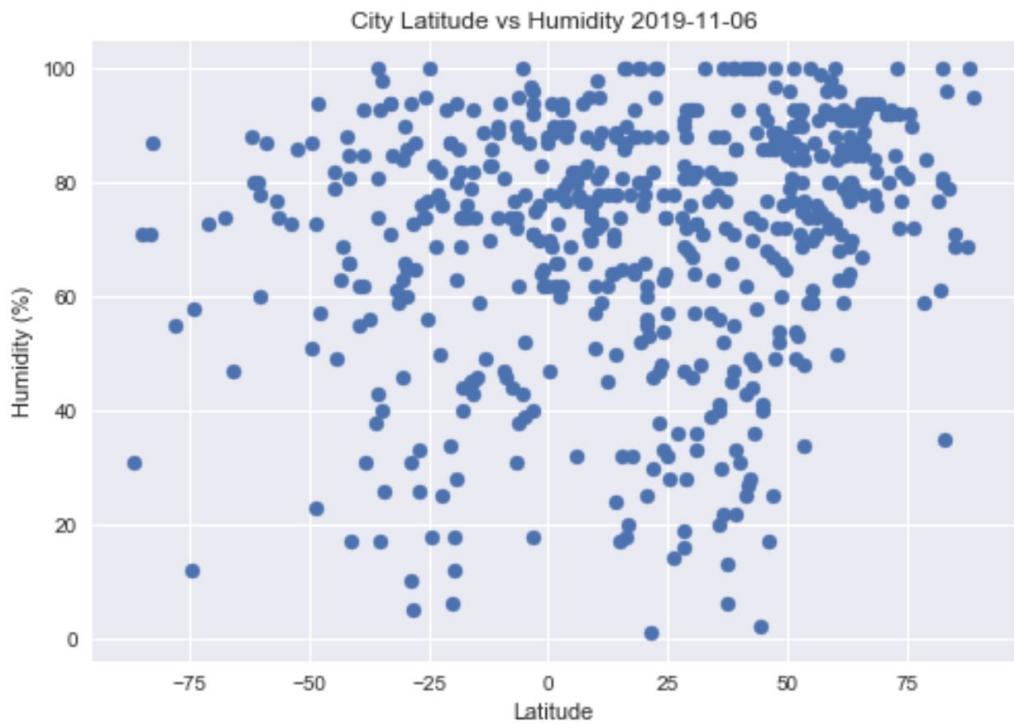


API Assignment Report

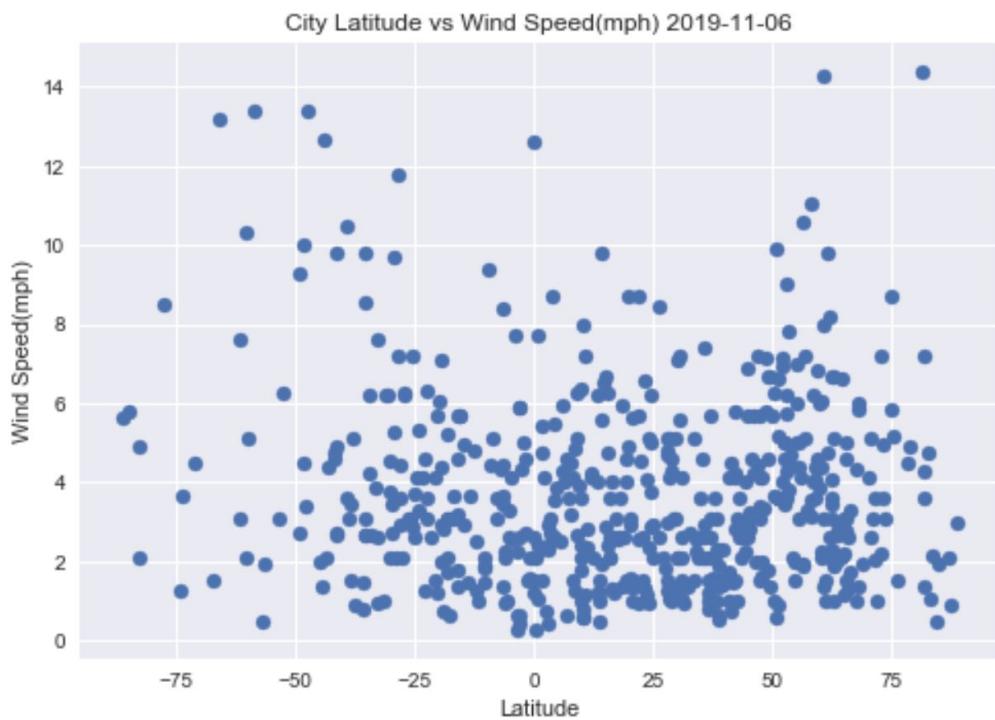


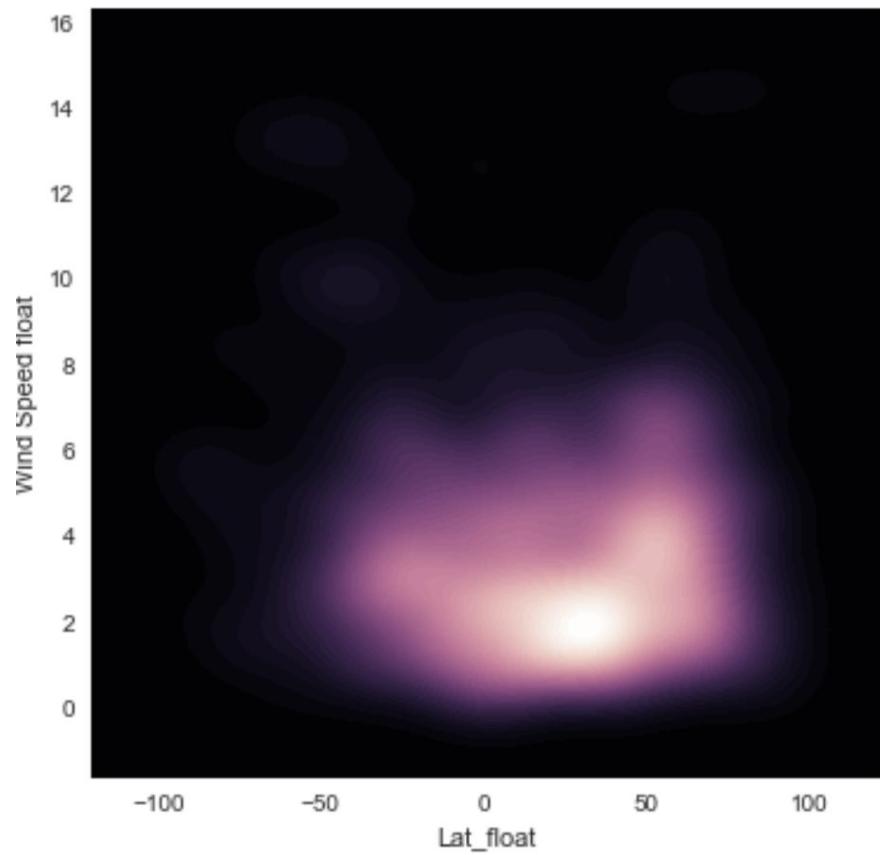
Observation: A 6th order polynomial function fits the Latitude vs Max Temperature(Kelvin) scatter plot well. The Coefficients are listed in the array below.

```
array([ 2.9895270e+02,  1.4642462e-02, -8.7033603e-03, -5.2090621e-05,
       8.1124972e-07,  3.7702832e-09], dtype=float32)
```



Observation: When considering the latitude data vs humidity scatter plot, the points converge at about +60. It means that cities around 60 degrees North of the Equator have similar humidities on November 6th, 2019.





Observation: The density plot shows the distribution of city latitude vs wind speed. According to the graph, most cities at from 50 degrees south of the equator to 75 degrees north of the equator has the max wind speed below 8 mph.