**WeatherPy Analysis**

During the use of the OpenWeatherMap API and several API calls based on a random 500+ cities, I was able to obtain information such as Coordinates, Temperature, Humidity, Cloudiness, Wind Speed, etc. The data obtained was later analyzed through the creation of several scatter plots and linear regression models. This approach created the opportunity to understand weather data based on city locations.   
  
Three noticeable trends were observed:

1. If temperature alone is an important element to consider a vacation destination, then If you prefer warmer destinations you should consider places close to the equator such as Peru, Brazil, and Thailand. As you move north of the equator you can find colder destinations such as Canada, France, and Russia.
2. Based on the linear regression model and r-squared results on both hemispheres plots we can determine that the only strong relationship we found between our model and the response variable is Temperature vs Latitude in the Northern Hemisphere.
3. Even though the r-squared for the Northern Hemisphere (Wind Speed vs Latitude) plot suggests that we have a weak relationship between the model and the response variable, I suggest looking into other statistical tools to determine if this relationship is significant. Based on that scatter plot alone I can suggest that wind speed for both hemispheres tend to be under 10 mph.

Kelvyn Guzman