The dataset I plan on using for this project is the [El Nino Dataset](https://www.kaggle.com/uciml/el-nino-dataset) from Kaggle.com. It contains oceanographic and surface meteorological readings taken from a series of buoys positioned throughout the equatorial Pacific. This data was collected with the Tropical Atmosphere Ocean (TAO) array, which consists of nearly 70 moored buoys spanning the equatorial Pacific, measuring oceanographic and surface meteorological variables critical for improved detection, understanding and prediction of seasonal-to-interannual climate variations originating in the tropics.

There are nine attributes, including wind direction, seawater temperatures, and humidity. There is missing data in the database. There are nearly 200,000 rows of data. The format is comma separated values with the first row being labels. I would like to try to predict the seawater and air temperatures based on the location of the observation, humidity, and date. I will test to see if the strength or direction of the winds plays a factor in the temperatires.