**FlexGen Internship Data & Analysis Task**

**Task**

Perform data evaluation and preparation for analysis, and conduct analysis of temperature for the presented dataset. More specifically, one needs to

* Perform exploratory data analysis (your preferable tool, Excel or Jupyter)
* Build graphical representations of the analyzing dataset: weekly (min, max, avg)
* Identify annual monthly seasonality and trends of the presented temperature observations based on average temperature
* Identify correlation between weekly average temperature and precipitation

**Data**

There are two cities, San Juan and Iquitos, with weather/temperature data for each city spanning 5 and 3 years respectively. The data for each city have been concatenated along with a **city** column indicating the source: **sj** for San Juan and **iq** for Iquitos. Throughout the dataset, missing values have been filled as **NaNs**.

Dataset can be downloaded from the following[**link**](https://www.dropbox.com/s/ie4hf1t0xqmj8ql/flexgen_data_analysis_test.csv?dl=0).

**Climate data weather station measurements:**

**city** – Temperature observations locations

**year** – Year of the temperature observation

**weekofyear** – Week of year of the temperature observation

**week\_start\_date** – Data of a week start of the temperature observation

**station\_max\_temp\_c** – Maximum temperature

**station\_min\_temp\_c** – Minimum temperature

**station\_avg\_temp\_c** – Average temperature

**station\_precip\_mm** – Total precipitation

**station\_diur\_temp\_rng\_c** – Diurnal temperature range