DSC672: Winter, 2019

Analytical Project, Milestone 1: Team information and analytics project proposal

**Team Members:**

Steve Rummel, Tyler Jewell, Sibi Augustin, Ricardo De Leon II and Prabhakaran Raghavan.

**Team leader, for purposes of submitting assignments timely:**

Steve Rummel

**Project Proposal:**

We are choosing the previously-specified 'Energy Consumption and Renewable Energy' project. As such, we are not submitting a data dictionary or related documentation at this time, however we will be following the original specification as follows:

We will build a forecasting model for hourly photovoltaic solar and wind electrical energy production, total electrical energy consumption by hour for 8 key sectors of the city. The goal is to determine how much renewable electrical energy will be supplemented to the local power supply.

**Rough Outline:**

**Week 1**

* Team creation
* Project proposal

**Week 2 (Milestone 1 Due 01/16/19)**

* Understanding of datasets
* Exploratory Data Analysis

**Week 3**

* Continue with Exploratory Data Analysis
* Prepare a 3 - 4 page document describing the preprocessing steps
* Prepare video recorded presentation

**Week 4 (Milestone 2 Due 01/30/19)**

* Build a model for hourly wind electrical energy production
* Build a model for hourly solar electrical energy production
* Build a model for hourly electrical energy consumption

**Week 5**

* Continue with building the models
* Prepare slides of current analysis
* Document future plans for completing the analysis

**Week 6 (Milestone 3 Due 02/13/19)**

* Evaluate that the models work
* Perform adjustments with the models as needed

**Week 7**

* Document milestones after the prior status check
* Document issues and challenges encountered

**Week 8 (Milestone 4 Due 02/27/19)**

* Finalize the models

**Week 9**

* Complete presentation
* Start working on the project report

**Week 10 (Milestone 5 Due 03/13/19)**

* Complete 10 – 12 page report describing the analysis tasks and findings

**Week 11 (Project report Due 03/20/19)**

* Submit Project report