Data Visualization (Batch 2A) - Assignment 2

Due Date: 16th December 2017

Link to download the data set:

The data set can be downloaded from the below URL

https://github.com/skathirmani/datasets/blob/master/data_iot_temperature.zip

Description

An IOT device is placed in a server room to monitor the temperature. The device senses the temperature every minute and sends the data to cloud. The lower and upper limit of the temperatures are 25 and 30 respectively

1. Day wise compute the average temperature and visualize them in a line chart

2. For each day compute how many times the temperature has exceeded the lower limit and upper limit separately. Visualize the same using stack bar

3. Create a new column for day of the month and hour of the day. Plot a tile map where x axis is day of the month, y axis is hour of the day. The colour should represent average temperature

4. Day wise visualize the distribution of temperature using one box plot per day

5. Create a static dashboard using above visuals. Make sure that you add some KPI metrics on top of the dashboard