**Variables:**

fail\_7 – Binary variable indicating whether the device failed in the next 7 days from the last record

Deviceid – Unique ID for each meter

**avg\_time\_charging\_lag** – Average amount of time the device was charging ‘i’ days prior

**avg\_time\_discharging\_lag** - Average amount of time the device was discharging ‘i’ days prior

**charging\_rate\_lag4** - Rate of Charging of the meter ‘i’ days prior

**discharging\_rate\_lag** – Rate of discharge of the meter ‘i’ days prior

**charge\_cycle\_time\_below\_12 – Charging+Discharging time <12**

chargecycles/dischargecycles - No. of times meter is charged and discharged

total\_off\_time - Average amount of time device spends switched off

number\_times\_restart - Average number of times device is restarted

**avg\_volt\_change\_charging** – Average change in voltage during charging

**avg\_volt\_change\_discharging** – Average change in voltage during discharging

avg\_time\_charging - Average amount of time the device spent charging

avg\_time\_discharging - Average amount of time the device spent discharging

max\_voltage\_day – Average value of the highest voltage attained everyday

piececount – Average number of pieces processed in a day

cycle\_time – Charging + Discharging time

LastRecord – Date of last recorded event

Date Deployed – Date on which device was put into use