Overview:

Connected machine, using IoT device we are capturing the fuel level of the fuel tank every 30's in ON conditions and every 10 minutes in OFF condition along with fuel level we are also capturing numerous number of parameter which explained in the "data_dict.xlsx" file. Every day we need to find the total fuel consumed with its respective KWH generated to find the efficiency of the machine. And also we are trying to identify anomalous behaviour of the fuel consumption pattern.

The dataset provided in the following folder please find the below files,

- The complete data dictionary - excel sheet "data_dict.xlsx".
- Data set - 5 machines - 3 months of data "data_set.csv"

For this assignment, build a model for calculating fuel consumption and different fuel pattern's (includes anomalous pattern) using R or Python.

Deliverables:

1. Your code

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- General methodology for calculating fuel consumption
- Justification for anomalous pattern
- Justification for you algorithm(s)
- Justification for handling the anomalous pattern
- Visualization as desired

Final thoughts:

This assignment is less about building the "perfect" model and more about understanding your problem solving skills and knowledge of core data science concepts. Don't worry too much about getting incredibly accurate results - focus more on explaining your steps and methodology