1. Predictive Maintenance for Machines used in Manufacturing using Machine Learning Model

Dataset: <https://archive.ics.uci.edu/ml/datasets/AI4I+2020+Predictive+Maintenance+Dataset>

Description:

The dataset consists of 10000 data points stored as rows with 14 features in columns.

Data on machine operating conditions such as temperature, torque, speed, tool wear etc. is available.

Similarly, data on when machine failed is available and classified under five categories viz. tool wear failure, heat dissipation failure, power failure, overstrain failure, random failures.

Problem Statement:

The aim of the project is to use the quantitative data on machine operating condition and predict if the machine will fail or continue to work using machine learning techniques.

If the machine failure is predicted, then the aim of the study will be to further predict the type of failure using machine learning techniques.

1. When is a bad time to board a train on Philadelphia Transit System (SEPTA)?

Dataset: <http://www3.septa.org/api/>

<https://www.septastats.com/>

<https://www.kaggle.com/septa/on-time-performance>

Description:

The SEPTA API consists of real time data on Philadelphia rail transit system.

SeptaStats.com is the historical data collected from Septa API

Kaggle Data Set is also obtained using Septa API

Problem Statement :

Using time of day , month and other features from the dataset to build a Machine Learning Model to predict Lateness and Breakdown of Trains on the Philadelphia Transit System (SEPTA)