

Objective:

Your task is to write a small Python script that predicts the **engine rating** based on the inspection parameters using only the provided dataset. You need to find all the cases/outliers where the rating has been given incorrectly as compared to the current condition of the engine.

This task is designed to test your Python, your knowledge of Data Science techniques, your ability to find trends, outliers, relative importance of variables with deviation in target variable and your ability to work effectively, efficiently and independently within a commercial setting.

This task is designed as well to test your hyper-tuning abilities, feature engineering and lateral thinking.

Your solution should at a minimum do the following:

1. Load the data into memory
2. Prepare the data for modelling
3. EDA of the variables
4. Build a model on training data
5. Test the model on testing data
6. Provide some measure of performance
7. Outlier analysis and detection