Data Science Cat 2

Github link:

Importance of using linear regression in predictive maintenance

Understandable relationship

Continous prediction – this will allow for monitoring and predicting continous values.

Handling multivariate data – this allows it to incorporate multiple independent values.

Sensor data that are relevant:

Product id

Type

Air temperature

Process temperature.

Rotational speed

Torque

Tool ware

Machine failure

With the missing values, I would replace them

Importance of Machine learning model

Predictive maintenance – they can be used to predict when the machinery are almost wearing out and raise an alarm.

Process optimization – they can be used to maximize the use of the available resources by identifying the best settings of the available resources

Quality control – the models can be used to detect the defect items