Nexperia Predictive Maintenance Full

Method Description

1. Load data path
2. Load data and labels
3. Extract the **Count** feature from the data
4. Use `svm.SVR()` with different parameters and choose the best model to predict the test data.

Validation Accuracy

```
Accuracy:
0it [00:00, ?it/s]Verification freq 1D, OW 1, PW 1_feature1: 0.924190800681431
Verification freq 1D, OW 16, PW 1_feature1: 0.9247404844290658
Verification freq 1D, OW 2, PW 1_feature1: 0.9249146757679181
Verification freq 1D, OW 4, PW 1_feature1: 0.9247863247863248
Verification freq 1D, OW 8, PW 1_feature1: 0.9253218884120171
5it [00:00, 29167.62it/s]
0it [00:00, ?it/s]Verification freq 1D, OW 1, PW 2_feature2: 0.9156729131175468
Verification freq 1D, OW 16, PW 2_feature2: 0.916955017301038
Verification freq 1D, OW 2, PW 2_feature2: 0.9163822525597269
Verification freq 1D, OW 4, PW 2_feature2: 0.9162393162393162
Verification freq 1D, OW 8, PW 2_feature2: 0.9167381974248927
5it [00:00, 47339.77it/s]
```

Problems Encountered

- No matter what arguments are given, the svm model just can't fit the data. The output of the predicted labels are mostly(or entirely) *False*.