Project Group: Machine Learning for Predictive Maintenance

Minutes for July 29, 2021. 10:30 - 12:50

Present: Tanja Tornede *(Supervisor)*, Christopher Zinda, Paul Fährmann, Sanjay Gupta, Vinay Kaundinya.

Minutes-taker: Vinay Kaundinya

Topics Discussed:

Implementation

Details —

1. Discussed dataset extension details, methods to transform TS data to list and strings to attribute types using attribute classes. Additions: Individual parse functions.

2. Discussed Sanjay's progress on TS fresh wrapper implementation(fixing code smells), rnn autoencoder review.

3. Improve tsfresh constructor implementation. Default parameters 'False', example: get set of active parameters, set contains element from enum, anything that is not in set deactivate.

4. Discussed asymmetric loss numbers and RMSE values for Direct RUL, CNN and LSTM approach. Additions: adapt to windowed predictor approach.

5. Discussed multiple classifier approach, RMSE and MSE values are as expected but not asymmetric score. Christopher to work on windowed predictor.

6. Discussed plan for week 31.

7. Discussed timeseries to numpy(and vice versa) transformation functions. Only timeseries stuff to list or numpy was discussed earlier and not transformation of all features.

8. Discussed to have a wrapper function for scalers.

Next Meeting:

1. Date and time: August 05, 2021 at 10:00 - 12:00

2. Person responsible for minutes: Paul Fährmann