

Project Group: Machine Learning for Predictive Maintenance

Minutes for March 03, 2020. 09:00 - 12:00

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

Minutes-taker: Sanjay Gupta

Topics Discussed:

Demonstration of the general Class diagram.

Details —

1. @Christopher demonstrated the Class diagram which is designed by the team members in draw.io.
2. Abstract class TransformerPipelineElement should be blue box.
3. Why do we need PredictorPipelineElement as an abstract class?
4. Health Index approach moves to the PredictorPipelineElement.
5. Update TransformerPipelineElement abstract class to sklearn.base.TransformerMixin abstract class.
6. Update PredictorPipelineElement abstract class to sklearn.base.RegressorMixin abstract class.
7. Two types of pipeline elements may be required: – 1) Feature Extractor 2) Learner or model.
8. RUL and HI assume data on time series are provided. So make.pipeline(RUL(), HI()).
9. @Tanja's Introduce two approaches, i.e. A and B, to the team, their differences, and the design of a rough sketch for all the elements required by each approach in the RUL, HI chapters.
10. EvaluationMetrics class should not be extending sklearn.base.BaseEstimator class.
11. Design clear distinct structure for metrics, pipeline, interfaces, and etc.
12. Add the relationship between floating classes, i.e. DatasetParser, EvaluationConfigParser.
13. Create flowchart workflow from class diagram and sequence diagram.

Additional Information —

1. People involved: Tanja Tornede and Team.

Demonstration of the Data Format chapter.

Details —

1. In the data format chapter, add Example for Health Index.
2. Add the title to the table as Categorical Data.
3. Update Target data types as numeric only.
4. Update the structure of the table on page 05 as discussed at the meeting.
5. Add "ToDo" packages instead of random text in the document.

Additional Information —

1. People involved: Tanja Tornede and Team.

Planned for next week.

Details —

1. Meeting with class diagram team to refactor the class and sequence diagram.
2. Update the system design chapter so that the class diagram can be clearly visible without zooming the page.

Additional Information —

1. People involved: Tanja Tornede and Team

Next Meeting:

1. Date and time: March 10, 2021 at 09:00 - 11:00
2. Person responsible for minutes: Selami Hoxha