

# Certificate

Nils Ness has successfully participated in the Bike Sharing Demand Challenge. The Challenge which was organized by the student group linkit as part of the Data Science project.

linkit was founded at the Karlsruhe Institute of Technology as the first German student group dedicated to Industry 4.0, the digital transformation in industrial production. As the volume of collected data grows bigger along entire value chains, the need for Data Analytics and the potential of Predictive Modeling increases rapidly. By participating in linkit's Challenges, members gain theoretical and hands-on Data Science experience and thus are empowered to deploy the data-driven technologies necessary to promote the transformation in traditional industries.

During the Challenge participants developed own approaches in small teams and implemented their models in Python. Each team's performance was assessed according to the accuracy on a hidden test set and the overall quality of approach.

## Some of the topics covered during the challenge:

### *Data preparation:*

- Data exploration
- Feature Engineering

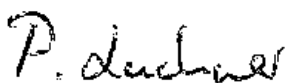
### *Implementation:*

- Collaboration with CoCalc

### *Modeling:*

- Regression techniques
- Ensemble learning

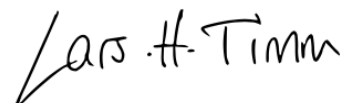
Karlsruhe, 15.12.2020



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