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## Machine learning and deep learning approaches for multivariate time series prediction and anomaly detection

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# About the Author

**Markus Thill**, born 1987 in Patan, Nepal, received his B.Sc. degree in computer engineering from TH Köln – University of Applied Sciences, Cologne, Germany, in 2012. He graduated with a master’s degree in Automation & IT in 2015. Since 2012 he is a research associate at TH Köln. In 2017, he joined the Natural Computing Group of Prof. Dr. Thomas Bäck at the Leiden Institute for Advanced Computer Science (LIACS) as an external Ph.D. student. His research interests are in the fields of time series analysis, anomaly detection, Reinforcement Learning (e.g., for board games), applied Deep Learning (DL) and incremental (on-line) learning procedures.