

# Nikolas Rieble

Data Scientist

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## PROFILE

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Engineer with 4 years of experience in applied data science. Implemented machine learning algorithms in Python for computer vision and time series analysis. Skilled at communication and training in statistics and mathematics. Persuasive and committed to empowering colleagues and customers with human-centered digitalization.

## WORK EXPERIENCE

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- **Smart Factory Developer** since 2018  
Hilti GmbH Industriegesellschaft für Befestigungstechnik
  - Smart Factory architecture: Design of a modular system from data acquisition to reporting
  - Project Management: evaluation and implementation of Industry 4.0 use cases
- **Student Researcher** 2017 - 2018  
Machine Learning/Intelligent Data Analysis Group, TUB
  - Brain Computer Interface: Implementation of EEG data analysis in Matlab
- **Student Researcher** 2016 - 2017  
Department of Production Systems, Fraunhofer IPK
  - Condition Monitoring: Classification of multidimensional time-series from production systems
- **Student Researcher** 2015 - 2016  
Department of Machine Tools and Factory Management, TUB
  - Real-Time Stream Monitoring: Implementation and evaluation of pattern recognition algorithms

## EDUCATION

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- **M.Sc. Computational Engineering Science** 2015 – 2018  
Technical University of Berlin
- **B.Sc. Psychology** 2013 – 2015  
University of Vienna
- **B.Sc. Mechanical Engineering** 2009 – 2014  
Technical University Stuttgart

## PROJECTS

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- **Computer Vision:** Random Ferns for Object Recognition in PolSAR radar images (Python)
- **Operations Research:** Processing Radioactive Waste in the US - A mathematical model (GAMS)
- **Robotics:** Reconstruction of a robots environment using the Kinect Camera (ROS, Python)

## COMPUTER LITERACY

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- **Programming:** Python (including: numpy, pandas, scipy, sklearn), C#, Matlab, SQL, GAMS
- **Dev Tools:** Git, Bamboo, Jira
- **Frameworks:** ROS, Apache Spark