# Nikolas Rieble
## Data Scientist

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## Profile

As an engineer I abstract problems into solveable subproblems and then develop scaleable solutions systematically. As a psychologist I communicate audience-oriented and am aware of the pitfalls of bias in decision building. Finally, as a data scientist, I explore data to generate a hypothesis and build predictive models to provide decision support or automatise a process. My motivation is to understand life a little better every day and reduce waste in all its forms.

## Work Experience

### Smart Factory Developer
Hilti GmbH Industriegesellschaft für Befestigungstechnik
2018 - today
I am responsible for the development of scaleable and maintainable applications to improve all production related processes including quality control, shopfloor management, job scheduling, value stream analysis and maintenance activites.

- Standardization - Design of a standardized Smart Factory architecture from data acquisition to reporting
- Introduction of software development tools - Git, Bamboo, Jira, Confluence
- Organizational structure - Introducing the "Train the trainer" concept to user training

### Student Researcher
Machine Learning/Intelligent Data Analysis Group, TUB
2017 - 2018
Implementation of EEG data analysis for the Brain-Computer-Interface

### Student Researcher
Department of Production Systems, Fraunhofer IPK
2016 - 2017
Classification of multidimensional time-series from production systems

### Student Researcher
Department of Machine Tools and Factory Management, TUB
2015 - 2016
Implementation and evaluation of pattern recognition algorithms

## Projects

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

## Education

- **M.Sc. Comp. Eng. Science**
  Technical University of Berlin
  Oct. 2015 – Jun. 2018

- **B.Sc. Psychology**
  University of Vienna
  Oct. 2013 – Sep. 2015

- **B.Sc. Mech. Engineering**
  Technical University Stuttgart
  Aug. 2009 – Mar. 2014

## Hard Skills

- Programming Languages - Python (including: numpy, pandas, scipy, sklearn), C#, Matlab, SQL, GAMS
- Machine Learning - Decision Tree (Random Forest, Random Ferns), Support Vectors Machine, Genetic Algorithms, Expectation Maximization, Neural Networks
- Time Series Analysis - Dynamic Time Warping, Fourier Transform
- Computer Vision - Edge Detection, Hough Transformation, Image Segmentation, Object Recognition, Iterative closest point
- Software Development - Git, Bamboo
- Frameworks - ROS, Apache Spark

## Soft Skills

- Initiative -
- Resilience -
- Flexibility -
- Communication -

## Language

- German - native
- English - fluent
- Turkish - intermediate
- Spanish - Basic