

# HILDE WEERTS

Curious and communicative data scientist. Excellent academic record and proven leadership and project management capabilities. Always looks for simple ways to explain difficult concepts. Passionate about fair and interpretable machine learning.

## EDUCATION

### MSc Computer Science and Engineering - Eindhoven University of Technology

SEP 2016 – MAY 2019 avg. grade **9.6** / 10

Courses included machine learning, statistics, process mining, data visualization, data engineering, algorithms, maintenance and logistics of capital goods.

### BSc Industrial Engineering - Eindhoven University of Technology

SEP 2012 – JUL 2015 avg. grade **8.8** / 10

Courses included operations management, information systems, organizational psychology, mathematical finance, cognitive neuroscience, and innovation management. **Honors Program**

**Participant:** an extra-curricular program for excellent students worth **30 ECTS**.

### Pre-university Education (Gymnasium) - Raayland College, Venray

SEP 2006 – JUL 2012 avg. grade **8.7** / 10

## EXPERIENCE

### Data Scientist - Océ - A Canon Company, Venlo

JUN 2019 – SEP 2019

Contract employee. Developed predictive maintenance models for predicting service calls based on historical error data.

### Graduate Intern Data Science - Rabobank Group, Zeist

SEP 2018 – MAY 2019 graded **10.0** / 10

Graduate research internship. Developed a decision support approach that leverages interpretable machine learning to assist fraud analysts in assessing the correctness of alerts.

### Research Intern - Columbia University, New York City

FEB 2018 – APR 2018 graded **9.0** / 10

International research internship. Designed and conducted a benchmark study on the importance of hyperparameter tuning of machine learning algorithms.

### Data Scientist - Pipple, Eindhoven

FEB 2017 – AUG 2017

Performed data preparation and algorithm development. Projects included a.o. text mining and product quality prediction. Initiated and developed a new data security policy.

### Board Member - Study Association Industria, Eindhoven

SEP 2015 – SEP 2016

Fulfilled the role of project manager. Responsibilities included the supervision of six committees and being editor-in-chief of industrial engineering magazine "SCOPE".

### Intern Maintenance Development - Nationale Spoorwegen, Utrecht

FEB 2015 – JUL 2015 graded **9.0** / 10

Undergraduate research internship. Evaluated predictive modeling techniques for predicting train failures within a condition based maintenance context.

## SKILLS

### PROGRAMMING

python  
R

### VISUALIZATION

Tableau  
Dash by Plotly

### DATABASES

SQL

### VIRTUALIZATION

Microsoft Azure  
Docker

### STATISTICS

SPSS  
SAS

### GRAPHIC DESIGN

Adobe Creative Cloud

### FAVORITE LIBRARIES

scikit-learn  
pandas  
Keras  
XGBoost

### LANGUAGES

Dutch (native)  
English (fluent)  
Spanish (Macarena)



## CONTACT

🌐 [hildeweerts.nl](mailto:hildeweerts.nl)

in [linkedin.com/in/hildeweerts](https://www.linkedin.com/in/hildeweerts)

## EXTRA CURRICULAR

### Study Association Industria

Advisory Board, Designer & Photographer  
Industrial Engineering Magazine "SCOPE",  
Board Member Student Bar "The Villa",  
Secretary Introduction Committee

### TU/e Honors Academy

External Relations Officer Study Trip.

## AWARDS & SCHOLARSHIPS

### Holland Scholarship

A scholarship yearly awarded to 14 students of the TU/e (2018)

### Dutch Digital Delta Talent Grant

A scholarship yearly awarded to 10 talented Dutch IT students (2017)

### Placed first at "Nacht van Eindhoven"

A case competition between universities in the field of operations research and data science organized by CQM (2017)

## INTERESTS

Singing (rock, pop, jazz), Graphic design

## PUBLICATIONS

[H.J.P. Weerts, W. van Ipenburg, M. Pechenizkiy \(2019\). A Human-Grounded Evaluation of SHAP for Alert Processing. KDD Workshop on Explainable AI.](#)

[H.J.P. Weerts, W. van Ipenburg, M. Pechenizkiy \(2019\). Case-Based Reasoning for Assisting Domain Experts in Processing Fraud Alerts of Black-Box Machine Learning Models. KDD Workshop on Anomaly Detection in Finance.](#)

[W. Duivesteijn, T. Farzami, T. Putman, E. Peer, H.J.P. Weerts, J.N. Adegeest, G. Foks, M. Pechenizkiy \(2017\). Have It Both Ways - from A/B Testing to A&B Testing with Exceptional Model Mining. ECML PKDD.](#)