# Tuomo **Kareoja**

SENIOR DATA SCIENTIST

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## **Sum**mary and Skills

Data scientist/engineer specialized in relational databases, data pipelines and interactive dashboards. Experience in discrete-event simulations, customer lifetime value/segmentation modelling, and using explorative modelling of business outcomes. Domain knowledge in micromobility, healthcare, customer analysis, finance and national elections.

**EU citizen**

| | |
|---|---|
| Programming | **Python, R, bash, LaTeX** |
| BI Tools | **Microsoft Power BI, Tableau, Looker** |
| Statistical Software | **RStudio, SPSS, SAS, RapidMiner** |
| Databases | **Snowflake, Redshift, Posgresql, Microsoft SQL Server** |
| DevOps | **Docker, DataDog, PagerDuty** |
| Languages | **Finnish (native), English (fluent), German and Swedish (basic)** |

## **Exp**erience

### **Senior Data Scientist**
TIER MOBILITY
*Berlin, Germany*
*Jan. 2021 - Present*

- Acquisition, CRM and pricing analytics
- Understanding customers with segmentation and customer lifetime value modelling
- Interim head of commercial analytics from 2020 December to beginning of March 2021

### **Data Scientist**
TIER MOBILITY
*Berlin, Germany*
*Feb. 2020 - Dec. 2020*

- Data ingestion, operational analytics and geographic visualizations

### **Data Scientist**
NORDIC HEALTHCARE GROUP
*Helsinki, Finland*
*Feb. 2019 - Present*

- Combining data all data pipelines to one with a new database (PostgreSQL, Python)
- Champion for version control, project management tools, reproducibility and internal documentation (GitLab, Asana, ClickUp, Docker, Conda)

### **Data Analyst**
NORDIC HEALTHCARE GROUP
*Helsinki, Finland*
*Jan. 2017 - Feb. 2019*

- Interactive visualization and discrete event simulations of hospital processes (Power BI, R, Python, PostgreSQL)

### **Junior Data Analyst**
GREY-HEN OY
*Helsinki, Finland*
*Sep. 2016 - Dec. 2016*

- Quality control of the automated data gathering and report generation for models predicting prizes of used cars (SAS, R, Microsoft SQL Server)
- Documentation of the process chain and datasets

### **Teaching Assistant**
UNIVERSITY OF HELSINKI
*Helsinki, Finland*
*Jan. 2012 - Dec. 2016*

- TA in numerous statistical courses at the departments of social psychology and statistics (SPSS, R)

### **Medical Typist (Part-Time)**
HUS SERVICE
*Helsinki, Finland*
*Jul. 2014 - Aug. 2015*

- Typing doctors' dictations and turning them into medical records and other documents, booking medical procedures

### Trainee (Internship)

*Helsinki, Finland*

NATIONAL INSTITUTE OF HEALTH AND WELFARE (THL)

*Jun. 2013 - Sep. 2013*

- Trainee in the unit "Advancing Mental Health" and the unit "Mental Health Problems and Substance Abuse Services". My duties were analyzing survey results of the mental health situation in Lapland and testing the reliability of psychological measurements in patients with psychosis. Work was done using statistical programs SPSS and R

### Hospital Service Technician

*Helsinki, Finland*

PALMIA, CITY OF HELSINKI

*Jun. 2009 - Jul. 2009*

- Managing mortuary, providing oxygen bottles to wards and transporting patients from the wards to treatments and back

## Education

### Data Science Bootcamp

*Berlin, Germany*

UBIQUM

*Jul. 2019 - Dec. 2019*

- On-site fulltime 5 month project based training course
- Technologies used: Python, R, MySQL, Spark, AWS, Docker
- Algorithms used: GLM, KNN, RF, SVM, GBM, apriori, SARIMAX, Prophet…

### B.S. in Statistics

*Helsinki, Finland*

UNIVERSITY OF HELSINKI

*2012 - 2019*

- Ongoing studies for a second major.
- Weighted grade average: 4.53 (scale 0-5)

### M.Soc.Sc. in Social Psychology

*Helsinki, Finland*

UNIVERSITY OF HELSINKI

*2012 - 2015*

- Masters weighted grade average: 4.91 (scale 0-5), Master's thesis: Eximia
- Bachelor weighted grade average: 4.02 (scale 0-5)