



Tuomo Kareoja

SENIOR DATA SCIENTIST

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Summary 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 micro-mobility, healthcare, customer analysis, finance and national elections.

EU citizen

Programming	Python, R, bash, LaTeX
BI Tools	Microsoft Power BI, Tableau, Looker
Databases	DBT, Snowflake, Redshift, PostgreSQL, Microsoft SQL Server
DevOps	Docker, DataDog, PagerDuty, CircleCI
Languages	Finnish (native), English (fluent), German and Swedish (basic)

Experience

Senior Data Scientist

TIER MOBILITY

- Acquisition, CRM and pricing analytics (Python, Snowflake, DBT, Looker)
- Understanding customers with segmentation and customer lifetime value modelling (CatBoost, RFM models, Airflow)
- Interim head of commercial analytics from 2020 December to beginning of March 2021

Berlin, Germany

Jan. 2021 - Present

Data Scientist

TIER MOBILITY

- Data ingestion, operational analytics and geographic visualizations (Python, ETLeap, AWS, Redshift, DBT, Looker)

Berlin, Germany

Feb. 2020 - Dec. 2020

Data Scientist

NORDIC HEALTHCARE GROUP

- Integrating medical data from multiple hospitals to one database for hospital benchmarking (PostgreSQL, Python)
- Champion for version control, project management tools, reproducibility and internal documentation (GitLab, Asana, ClickUp, Docker, Conda)

Helsinki, Finland

Feb. 2019 - Feb 2020

Data Analyst

NORDIC HEALTHCARE GROUP

- Data processing and interactive visualization for hospital benchmarking in internal medicine and emergency care (Power BI, R, Python, PostgreSQL)
- Discrete-event simulations of hospital processes (Python, SimPy, Plotly, Dash)

Helsinki, Finland

Jan. 2017 - Feb. 2019

Junior Data Analyst

GREY-HEN OY

- 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 data pipelines and datasets

Helsinki, Finland

Sep. 2016 - Dec. 2016

Teaching Assistant

UNIVERSITY OF HELSINKI

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

Helsinki, Finland

Jan. 2012 - Dec. 2016

Medical Typist (Part-Time)

HUS SERVICE

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

Helsinki, Finland

Jul. 2014 - Aug. 2015

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.A. in Statistics

Helsinki, Finland

UNIVERSITY OF HELSINKI

2012 - 2021

- Weighted grade average: 4.53 (scale 0-5)
- Bachelor thesis was about applying hierarchical Bayesian models to combine multiple n-of-1 clinical trials

M.A. in Social Psychology

Helsinki, Finland

UNIVERSITY OF HELSINKI

2012 - 2015

- Weighted grade average: 4.91 (scale 0-5), Master's thesis: Eximia
- Master thesis was an experimental study comparing the effect of two types of meditation practices with over 1000 participants

B.A. in Social Psychology

Helsinki, Finland

UNIVERSITY OF HELSINKI

2010 - 2012

- Weighted grade average: 4.02 (scale 0-5)