



Jan Rathfelder

Curriculum Vitae

Summary

- Economist with strong background in causal-inference and a passion for machine learning and time-series data
- Author of a [python library to check OLS assumptions with over 4000 downloads](#)
- Rich experience in developing a PoC and MVP for products
- Private data science projects on [GitHub](#)

Working Experience

from 01/2024 Senior Data Scientist, Forecasting, VOIDS.

- Time-series forecasting using Nixtla, scikit-learn and pytorch forecasting
- ML Flow, Sagemaker, Airflow
- Improved the models in production by around 20%

from 09/2021 - 12/2023 Commercial Data Scientist, *Powerhouse AI*, DSAA, Bayer Pharmaceuticals.

- Data science guild organiser
- Leading sales forecast projects for multiple countries
- Development of a time-series transfer learning model for launch drugs
- Developed a next-best-action recommendation for marketing, utilising deep learning for time-series data
- Using ML and econometric causal-inference methods to estimate the impact of marketing activity (either overall or campaign based)

from 04/2019 - 08/2021 Applied Scientist, *Predictive Buying*, Supply Planning & Analytics, Zalando SE.

- Product for buying optimisation, from PoC to final product:
 - Development of demand forecast (pytorch-ts), elasticity and return rate prediction model (scikit-learn)
 - Responsibility for the backtesting framework
 - Experimentation using AWS and Airflow

04/2017 - 03/2019 Data Analyst, *Team Analytics*, Pricing & Forecasting, Zalando SE.

- Development of an A/B Testing product for Pricing & Forecasting using R
- Development of a campaign voucher effect measurement model using CausalImpact
- Core involvement in a historical price elasticity of demand product (dashboard for leadership)
- Idea and implementation of ,99 price ending for low price brands

10/2015 - 03/2017 Pricing Manager, *Strategy & Competitive*, Pricing & Forecasting, Zalando SE.

- Improvement of the competitive adaption logic (Key-value-item logic)
- Analysis and conception of customer surveys about price perception

Study

07/2021 – 11/2023 Artificial Intelligence, *Master of Science (1,4)*, IUBH Internationale Hochschule.

Modules

- Creating business value using AI and ML (e.g.: Machine Learning Canvas)
- Machine Learning
- Deep Learning
- Reinforcement Learning
- Computervision and NLP

06/2020 – 09/2020 Machine Learning, *Certificate (97%)*, [eCornell University](#).

Details

- Building popular algorithms using numpy, except for Neural Networks
- Probability Distributions
- Linear Classifiers, Decision Trees and Model Selection
- Learning with Kernel Machines
- Neural Networks and Deep Learning – pytorch

10/2011 – 12/2014 Economics, *Master of Science (2,4)*, University of Potsdam, Focus on Econometrics.

Details Econometrics

- Effect estimation using Stata
- Multiple Regression analysis, Instrumental Variable Estimation, Logit and Probit Models
- Effect estimation using (Propensity) Score Matching and Difference-in-Difference
- Working student at the chair of Applied Econometrics

10/2007 – 09/2011 Economics, *Bachelor of Science (2,4)*, University Frankfurt (Oder), Focus Microeconomics.

Details Microeconomics

- General microeconomic theory, game theory and energy economics

Languages

German Mother tongue
Englisch Business fluent
Italian Beginner

Programming

python pandas, numpy, scipy, scikit-learn, pytorch, keras, stats models, Nixtla.
R dplyr, ggplot2, lubridate, SuperLearner, CausalImpact.
GitHub Version control.
SQL Ability to build complex query.
L^AT_EX Love it.

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