

Louis Gehringer

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ABOUT ME

Website : [Louexes.github.io](https://louexes.github.io)

Languages : German (Native), English (Native), French (Basic), Arabic (Basic)

Programming Languages: Python, R, SQL (Postgres), HTML/CSS

Libraries: PyTorch, TensorFlow, Pandas, NumPy, Matplotlib, SciPy, Scikit-learn, Keras, OpenCV

EDUCATION

Master of Science in Artificial Intelligence

Sep. 2024 – June 2026

University of Amsterdam

Amsterdam, Netherlands

- One of the most selective and technical MSc AI programs in Europe, covering a breath of topics in the domain.
- Relevant modules: Machine Learning 1, Computer Vision 1, Deep Learning 1, Natural Language Processing 1

Bachelor of Science in Econometrics and Data Science

Sep. 2021 – June 2024

University of Amsterdam

Amsterdam, Netherlands

- Thesis: “Robustifying Generalized Autoregressive Score updates by the PseudoSpherical scoring rule” (Grade: 8.6/10).
- Developed a robust framework for Score-Driven models by integrating the PseudoSpherical scoring rule to mitigate the impact of outliers in time-varying parameter updates. Introduced a quasi-score-driven approach with a tunable sensitivity parameter, enhancing the model’s reliability for forecasting non-linear time series.
- Relevant Modules: Statistical Learning, Reinforcement Learning, Information Theory, Time Series Analysis, Optimization, Multivariate Analysis, Real Analysis, Data Structures & Algorithms in Python.

EXPERIENCE

Model Developer

Aug. 2024 - Present

SlimBieden

Amsterdam, Netherlands

- Implementing Econometric and Machine Learning methods to model the Dutch housing market.
- As part of the model development team, researching the latest methods from academic papers and putting them into production.
- Closely supervised by two PhD students in Financial Econometrics.

Core Team Member: Event Lead

Dec. 2023 – Sep. 2024

Google Student Developer Club

Amsterdam, Netherlands

- Organizing various educational events in the tech domain such as Hackathons, Coding Workshops, Guest Speaker Events and In House Days for students from all educational backgrounds.

Data Analyst

Oct. 2023 – Jan. 2024

Analytics Academy

Amsterdam, Netherlands

- Developed a Google Looker Studio dashboard to display website analytics for Dutch non-profit organization Paxvoorzvred.
- Processed donation and website traffic data in Excel and Python.

Academic Tutor

Dec. 2022 – Dec. 2023

FBSB

Amsterdam, Netherlands

- One-on-one tutoring covering coursework in Mathematics, Statistics, and Econometrics.
- Wrote full course summary for the course Mathematics 1: Calculus.

PROJECTS

Conformalized Quantile Regression | *Python, Scikit-Learn*

April 2024 – June 2024

- Implemented research by Angelopoulos and Bates (2023) on Conformal Prediction and applied it to quantile regression to quantify uncertainty in drug response data.

LSTM Time Series Weather Forecasting | *Python, Scikit-Learn, TensorFlow, Keras*

Feb. 2024 – March 2024

- Trained LSTM model using Keras to accurately predict various weather metrics in the Amsterdam region.
- Collected and preprocessed approximately 300,000 historical data points using Python.