Emiel Steegh

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Profile

I am a **data scientist** and **creative** with a passion for **innovation**. I am eager to dive deep into complex problems and transfer what I learn to other people or impactful solutions. I love to learn, research and analyze.

Education

MSC DATA SCIENCE | UNIVERSITY OF AMSTERDAM — *AUG 2021 - OCT 2022*

I was a socially involved and driven master's student striving for excellence, leading group projects to strong results.
- GPA: 9/10 - *Cum Laude*
- Thesis Grade 9/10 on imbalanced low-resource text processing with pre-trained large language models like GPT and data scarcity techniques like knowledge transfer and active learning.
- Projects on: city-wide crowdedness forecasting using deep neural nets, sales predictions with statistical models in complex settings, building automated large volume data cleaning pipelines, and delay predictions on messy data using graph neural networks.
- Courses in: Big Data, Distributed computing, Forecasting in complex systems, Deep neural networks, NLP, Policymaking and rule governance, Ethics, Data Visualization and Communication.

BSC CREATIVE TECHNOLOGY | UNIVERSITY OF TWENTE — *AUG 2016 - SEP 2021*

A multi-disciplinary engineering degree, bridging the gap between the engineering domains and the world around us to push for innovation. A wide range of subjects where I focussed on programming, (UX) design, and rapid problem-solving. Thesis research on leveraging sentiment and multi-modal AI approaches against fake news.
- GPA: 8/10 | Thesis: 8/10
- Minor IT Project Management
- Minor Data Science

Experience

RESEARCH INTERN GRADUATE (AI) | GEMEENTE AMSTERDAM — *JAN 2022 - AUG 2022*

Researched as part of the Data Science innovation team and consulted on AI for the Internal Services team. Core research in NLP knowledge transfer & Active Learning in the dutch law domain. Achieved a 3% improvement over the previous top and, most importantly, created key insights. The paper is submitted to be published at the ICAIL.

FULL STACK SOFTWARE ENGINEER | EL NIÑO — *JUN 2021-FEB 2022*

Developed mainly PHP backends of 3 robust web services providing data insights and large chat rooms for over 300k monthly visitors. Collaboration through git, frequent client communication, and requirement engineering.

TEACHING ASSISTANT | UVA & UTWENTE — *NOV 2017- AUG 2022*

Assisted 50+ pupils in 10-week courses. Including Machine Learning, Programming, Physical Computing, and Algorithms. Lectured, graded, coached students one-on-one, and helped develop course materials.

BOARD MEMBER | STUDY ASSOCIATION PROTO — *SEP 2018 - SEP 2019*

Supported 600+ students, led 12 committees, and managed the association as one of six elected board members. Made 40+ hour work weeks for a year, regularly gave presentations, and learned many valuable soft and social skills.

CONSULTANT & DEVELOPER | 63 MILES — *DEC 2017 - DEC 2020*

Built and designed software for clients. A highlight was creating data analysis and visualization software for agriculture, leading to insight into growth cycles and boosting production by 4%.

Skills

Python (9 years), R, PHP, SQL, C++ | Statistics | AI, ML, NLP, Forecasting, Data Visualization
Project management, Agile, SCRUM, Git, Requirement engineering | Wedding photography, Graphic Design
Dutch (native), English (near-native), German (conversational), Spanish (actively learning)
Certifications: University of Stanford - Machine Learning, English Language and Literature International Baccalaureate