

GERMANS SAVCISENS

PhD Fellow in Social Data Science

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PROFILE

Second year PhD Student in Computational Social Sciences. Background analysing massive datasets as well as developing and adapting machine learning methods for modelling of unstructured longitudinal data. Skilled in data processing & mining, explorative analysis, visualisation of complex datasets and predictive analytics. Have an extensive experience working in global international teams as well as communicating complex ideas to people with different backgrounds. Passionate about research within areas of social interactions, human dynamics & behaviour.

WORK EXPERIENCE

PhD Fellow | Technical University of Denmark & University of Copenhagen Sep 20 — Present

Using nation-wide social-economic & health data to predict life outcomes applying transformer-based neural networks.

- Applied deep learning for the life-outcomes prediction, evaluated and interpret outputs of neural models.
- Developed and implemented machine learning models for the representation learning.
- Implemented visualization tools for the exploration of large-scale sequential data.

Guest Researcher | Denmark Statistics Sep 20 — Present

Affiliated with the Data Science Lab as a part of my PhD Research:

- Mined & processed large-scale behavioral datasets for exploratory & predictive analysis.
- Collaborated with Denmark's leading economists & social scientists to identify demographic patterns.

Global Data Science Researcher | Novo Nordisk (multinational pharmaceutical company) Sep 19 — Apr 20

Conducted research with the Data Science department on predictive modelling for medical adherence:

- Worked with IT, engineering, and product managers to extract useful business insights.
- Developed hierarchical attention models for the health-outcome predictions.
- Deployed the model to leverage behavioral data affecting key business areas.

Global IT Infrastructure Assistant | Novo Nordisk (multinational pharmaceutical company) May 17 — Sep 19

- Enhanced data collection procedures, assisted in automating data processing challenges
- Build reporting dashboards, provided ad-hoc analysis and visualization of various reports.

EDUCATION

Aalto University | Helsinki, Finland Feb 21 — Jun 21

Visiting Student for Digital Ethics and Statistical Natural Language Processing

Technical University of Denmark | Copenhagen, Denmark Feb 18 — May 20

MSc in Human-Centred Artificial Intelligence

Technical University of Denmark | Copenhagen, Denmark Sep 17 — Jan 18

Pre-Masters (Statistics and Advanced Engineering Mathematics)

Aalborg University | Copenhagen, Denmark Sep 13 — Jul 16

BSc in Human-Computer Interaction

SKILLS

Hard Skills:

- Predictive Analytics
- Statistics
- Machine Learning
- Natural Language Processing
- Fundamental Models
- Data Processing and Visualization
- Network Analysis
- Design of Experiment

Languages:

- Russian (native)
- English (fluent)

Coding languages:

- Python (advanced)
- SQL (advanced)
- C# (proficient)
- Java (proficient)

Tools:

- PyTorch (+ Lightning)
- Pandas (+ Dask)
- Scikit,
- NetworkX
- Flask
- Bokeh & Seaborn

ACADEMIC TALKS

“Life2vec: What Transformers can learn about us from the government statistics”

Nov 21

Centre for Social Data Science | Copenhagen, Denmark

“Representation of Behavior with Transformers: Beyond NLP”
Centre for Basic Machine Learning in Life Science (MLLS) | Copenhagen, Denmark

Nov 21

“Representation of Human Behavior”
Statistics Denmark (Nation-scale Social Networks) | Copenhagen, Denmark

Sep 21

TEACHING

As a Teaching Assistant I navigate students with their assignments and projects, as well as develop a course content and measure student's final performance:

Algorithmic Fairness, Accountability and Ethics | IT University of Copenhagen

Jan 22 — Present

Advanced Machine Learning | Technical University of Denmark

Jan 21 — Jun 21

Social Data Analysis and Visualizations | Technical University of Denmark

Feb 19 — May 21

Social Networks and Interactions | Technical University of Denmark

Sep 19 — Dec 20