Bjarke Mørch Mønsted

Data Science | Machine Learning

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SUMMARY

Physicist turned data science Ph.D. at DTU, with external stay at MIT. Specializes in large-scale data analysis, machine learning, and modeling. Strong in communication and independent project management.

EDUCATION

Ph.D. in Data Science | Technical University of Denmark *2019*
Specialization in distributed computing and modeling. External stay at MIT.

M.Sc. in Physics | University of Copenhagen *2015*
Specialization in machine learning & natural language processing

B.A. in Philosophy | University of Copenhagen *2014*
Specialization in analytical philosophy.

B.Sc. in Physics | University of Copenhagen *2011*
Specialization in quantum information theory.

EXPERIENCE

Machine Learning & Data Science research

- Used deep neural networks and transfer learning to dramatically improve state of the art topic-specific sentiment scoring.
- Analysis of large-scale text data from Twitter using Spark/hdfs.
- Used SVMs and random forests to predict user personality traits from smart phone data.
- Developed and tested statistical models for influence in social networks.

Work & Projects

- Taught high school mathematics at Niels Steensens Gymnasium (2012-2015)
- Planned and executed a research project on behavioral economics in collaboration with the London School of Economics. Built online platform for behavioral experiments.
- Responsible for organizing a large (60 participants, audience $\sim$ 1000) student theater project (2011-12)

Publications & Awards

- *Accelerating dynamics of collective attention*, Nature Communications
- *Evidence of complex contagion of information in social media: An experiment using Twitter bots*, PLOS One
- *Phone-based metric as a predictor for basic personality traits*, Journal of Research in Personality
- *Algorithmic Detection and Analysis of Vaccine-Denialist Sentiment Clusters in Social Networks*, Preprint
- *Exact diagonalization study of the Hubbard-parametrized four-spin ring exchange model on a square lattice*, Physical Review B
- Best presentation, NetSciX conference, 2017
- Best research paper, IC2S2 2018

TECHNICAL SKILLS

Python	●●●●●
Machine Learning	●●●●●
Apache Spark	●●●●●
Network Analysis	●●●●●
Data Visualization	●●●●●
Data Analysis	●●●●●
Modeling	●●●●●
Statistics	●●●●●
Deep Learning	●●●●○
Flask	●●●●○
Linux	●●●●○
AWS	●●●●○
API	●●●○○
HTML	●●●○○
Git	●●●○○
SQL	●●●○○
JavaScript	●●○○○
CSS	●●○○○
C++	●●○○○
Java	●●○○○

SOFT SKILLS

Presenting	●●●●●
Teaching	●●●●●
Critical Thinking	●●●●●
Communication	●●●●●
Project planning	●●●●○

LANGUAGES

Danish	●●●●●
English	●●●●●
German	●●○○○