

# William Diedrichsen Marstrand

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## Education

### DTU - Technical University of Denmark

Expected completion: June 2025

MSc in Mathematical Modelling and Computation | [Link to study programme](#)

Relevant courses: Computational data analysis (python), Model-based machine learning (python), Deep learning (python), High performance computing (C), ML for signal processing (python), Bayesian ML (python), Time series analysis (R), Computer vision (python), Machine Learning Operations (python)

### DTU - Technical University of Denmark

Completed: June 2021

BSc in Artificial Intelligence and Data Science | [Link to study programme](#)

Relevant courses: Intro to ML (python), Signals and data (python), Algorithms and data structures 1, Mathematics 1&2, Statistics (R), Probability theory, Mathematical software programming (C), Intro to numerical algorithms, Intro to intelligent systems (python), Artificial intelligence (python), Active machine learning (python)

### ITU - IT University of Copenhagen

75 ECTS completed 2018

BSc in Software Development | [Link to study programme](#)

Relevant courses: Intro programming project (java), Intro to database systems (SQL), Functional Programming (F#)  
2nd year large programming project (F#), Analysis, design, and software architecture (C#), OS (C)

## Work Experience

### The Org

Oct. 2021 - Nov. 2022

**Junior Data Scientist** *Python, Pytorch, Scikit-learn, Docker, AWS, Git, GitHub, DVC, Postgres, Snowflake, Fast API*

- Data processing, feature engineering, data mining with Postgres, Snowflake, and DBT to gain new insights and create new features for improving The Org ecosystem.
- Setting up a common Docker work environment for the data science team and automating building and deployment to AWS ECS using Github Actions.
- Bayesian model for personalized ranking of recommended companies for the user feed on The Org platform.
- Modeling the probability of job title placement to automatically build organizational charts.
- Training of an ML model for object detection and content extraction of job titles and photos from screenshots of websites.

### Save the Children Denmark

Feb. 2016 - Oct. 2021

**Software and ML Developer**

*Python, Scikit-learn, Numpy, Pandas, C#, Git, GitHub*

- Trained ML models for churn prediction i.e. supporters at risk of canceling their membership.
- Principal responsible for all development in the Save the Children Fundraising department. This primarily included maintenance of an ASP.NET Web API in C#, which was critical for Save the Children's fundraising processes.
- Worked with Microsoft Dynamics CRM, creating plugins, workflows, maintaining data, setting up tables/entities, and business processes. Also performed ad hoc tasks related to data cleaning and import

## Volunteer Work and Other Experiences

### Neural

Nov. 2018 - Oct. 2020

**Vice Chairman**

- Non-profit organization for artificial intelligence in Denmark. A forum for academics and industry with an interest in AI.
- Orchestration of workshops and events to enhance skills and promote continuous learning.

### Winner of MLH Copenhacks

2019 (Duration 2 days)

- Created a prototype of a learning assistant called KimSpeech. It could ask naive questions for a user defined topic. It used Azure Cognitive Services for speech recognition and speech-to-text, and Wikipedia API as a data access point.

### Winner of Tech Days Legal Hackathon

2018 (Duration 1 day)

- Our product was a prototype for handling class action lawsuits, coded in React.

## Technical Skills

### Languages:

Python(primary), SQL, R, Bash, Java, C, C++, C#, F#

### Top Technologies & Tools:

Git, Docker, Github, Pytorch, Pytorch Lightning, Hydra, DVC, Fast API, Pydantic, Pytest, Conda, Scrapy, Numpy, Pandas, Scipy, Scikit-learn