

CECILIA NYBERG

M.Sc. Data Science and AI

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WORK EXPERIENCE

Programmer intern

Ongoing WMS: Warehouse Management System

June 2024 – July 2024 Gothenburg

- Implemented service selection functionality for delivery transport bookings
- Coded in C# and HTML for front- and back-end development and SQL for database connection

Market analysis

Firework

June 2023 – August 2023 San Mateo, California

- Conducted market analysis for an un-launched B2B e-commerce product
- Performed customer segmentation and analysis to inform product development and marketing strategies

SELECTED PROJECTS

Efficient Energy Modeling of Radio Stations

Master's Thesis, Chalmers University of Technology, Ericsson

January 2025 – June 2025

Currently doing time-series forecasting of energy usage in Ericsson's radio stations. Will use active learning for data-efficient training.

Game Application for Visually Impaired

Bachelor's Thesis, Chalmers University of Technology

January 2023 – June 2023

Developed and implemented a user-focused AI-driven accessible application, representing a hand of cards, to facilitate board game playing for people with visual impairments.

Meta-Learning for Transferability of WACO: Workload-Aware Co-Optimization for a sparse tensor program

Seoul National University

October 2024 – December 2024

WACO can greatly speed up sparse matrix operations, but suffers from high re-training cost when used on a new hardware. This project integrated Meta-Learning in the training loop for WACO which reduced the amount of data needed for fine-tuning on a new machine.

For more projects, see portfolio: <https://cecnyb.github.io/>

COMPETENCES

Machine Learning Data Processing

Transfer Learning Statistical Analysis

NLP LLM CNN Bayesian Optimization

Python Java C# JavaScript SQL

Linux PyTorch SIFT RANSAC

LANGUAGES

Swedish ● ● ● ● ●

English ● ● ● ● ●

Spanish ● ● ● ● ●

German ● ● ● ● ●

Korean ● ● ● ● ●

EDUCATION

M.Sc. Data Science and AI

Chalmers University of Technology

September 2023 – Current

Exchange semester, Data Science and AI

Seoul National University

September 2024 – December 2024

Summer Session

University of California, Berkeley

June 2023 – August 2023

B.Sc. Industrial Engineering and Management

Chalmers University of Technology

September 2020 – June 2023

ACHIEVEMENTS

🎓 Certificate of Excellence
Language Education Institute SNU, 2024

🏆 Finalist National Case Competition
Luleå, 2023

🎓 Scholarship for excellent academic performance
Sigrid Rudebecks High School