

CECILIA NYBERG

M.Sc. Data Science and AI

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WORK EXPERIENCE

Software developer

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

Product Launch Strategy

Firework

 June 2023 – August 2023

 San Mateo, California

- Developed the launch strategy for a new B2B e-commerce product through market research and competitor analysis
- Identified target customer segments and delivered insights to guide product positioning and rollout planning

SELECTED PROJECTS

Dynamic Voltage Optimization in Radios Utilizing PRB Utilization and Power Traffic Patterns

Master's Thesis, Chalmers University of Technology, Ericsson

 January 2025 – June 2025

- Currently developing a dual-model framework combining Bayesian-adjusted Random Forest filtering with LSTM-based refinement for context-aware voltage switching in 5G radios
- Targeting energy reduction by forecasting unstable load patterns using PRB utilization and real-time power data

Accessible Game Application for the Visually Impaired

Bachelor's Thesis, Chalmers University of Technology

 January 2023 – June 2023

Designed and developed an AI-driven mobile application to represent card hands through audio and tactile feedback, enabling inclusive board game play for users with visual impairments.

Meta-Learning for Transferability of WACO: Workload-Aware Co-Optimization for Sparse Tensor Programs

Seoul National University

 October 2024 – December 2024

Integrated meta-learning into the training loop of WACO to improve its cross-architecture generalization for sparse matrix operations. Reduced the data required for fine-tuning on new hardware, addressing WACO's high adaptation cost across different machines.

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

COMPETENCES

Machine Learning

Data Processing

Time series forecasting

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, GPA: 4.88/5

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, GPA: 4.78/5

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