CECILIA NYBERG

M.Sc. Data Science and AI

@ cecilia.nyberg@hotmail.se ☎ +82 10-7586-9304 ✉ 1611-5, Bongcheon-dong, Gwanak-gu, Seoul
🌐 https://cecnyb.github.io/ in https://www.linkedin.com/in/cecilianyberg/ ○ https://github.com/cecnyb

WORK EXPERIENCE

Appointed Researcher

Deep Learning Lab, Naval Architecture and Ocean Engineering, Seoul National University

📅 July 2025 – February 2026 📍 Seoul, South Korea

Conducting research on energy-efficient large language models (LLMs), focusing on precision reduction techniques for weights and activations while maintaining model performance.

Master's Thesis Student

Ericsson

📅 January 2025 – June 2025 📍 Stockholm, Sweden

Designed a dynamic voltage switching system for 4G radio units by forecasting traffic load using PRB utilization and real-time power data; evaluated transformer-based and classical ML models; and analyzed interpretability using SHAP.

Software Developer

Ongoing WMS: Warehouse Management System

📅 June 2024 – July 2024 📍 Gothenburg, Sweden

Implemented service selection functionality for delivery bookings, working across front- and back-end using C#, HTML, and SQL.

Product Strategy Intern

Firework

📅 June 2023 – August 2023 📍 San Mateo, California

Developed a B2B e-commerce launch strategy through market research, competitor analysis, and customer segmentation.

SELECTED PROJECTS

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 WACO's training loop to improve cross-architecture generalization in sparse matrix operations. Reduced fine-tuning data requirements and mitigated WACO's high adaptation cost on new hardware.
For more projects, see portfolio: https://cecnyb.github.io/

COMPETENCES

Machine Learning | Time series | Statistical Analysis | Transformers | NLP | LLM | Meta-Learning | SHAP | Python | Linux | PyTorch

LANGUAGES

Swedish	●●●●●
English	●●●●●
Spanish	●●●○○
German	●●●○○
Korean	●●○○○

EDUCATION

M.Sc. Data Science and AI, GPA: 4.88/5

Chalmers University of Technology

📅 September 2023 – June 2025

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