



# Axel Friberg Hagen

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Born May 2nd, 2001

## EDUCATION

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### **Master of Technology, Physics and Mathematics**

*Aug 2020 - June 2026*

*Norwegian University of Science and Technology*

Specialization: Industrial Mathematics, focus on Machine Learning and Statistics

### **MSc, Mathematical Engineering**

*Sep 2023 - Sep 2024*

*Politecnico di Milano, exchange*

Specialization: AI and deep learning

## WORK EXPERIENCE

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### **Kongsberg Discovery AI Engineer - Summer internship**

*Jun 2024 - Aug 2024*

Contributed to the development of autonomous electric research vessel for ocean monitoring. Implemented deep learning models for water depth prediction and bottom classification. Integrated SY50 sonar system and developed data pipeline for large amounts of sensor data. Applied Python, AI/ML, and signal processing in cross-functional team of 10. The summer internship evolved into a part-time position where I work on developing image segmentation models for echograms.

Python; TensorFlow, pandas, sklearn

### **ABAX Data scientist - Summer internship**

*Jun 2023 - Aug 2023*

Contributed to AI and ML projects for RD of new products and services. Performed data analysis using Python, Google BigQuery and R. Developed AI/ML models with BigQuery ML for time series analysis. Developed data-driven algorithms for battery health and collision detection. Implemented anomaly detection for sensor data.

R, Python, SQL, C++

### **Moss Municipality Healthcare Worker in Home Care Services**

*May 2021 - Aug 2023*

Performed daily care, medication administration, and basic wound treatment for patients in their homes. Assisted with daily activities and monitored patients' health conditions. Focused on improving patients' quality of life by providing extra support beyond formal work requirements and creating a positive atmosphere.

## VOLUNTEER WORK

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### **Student Association Nabla**

*Aug 2021 - Apr 2023*

Held several key positions in the student association for Physics and Mathematics. As Social Coordinator in the Events Committee, organized major events such as Julebohr, matriculation ball, and several large events during Nabla's 80th anniversary. Led the Halving Ball Committee with responsibility for organizing and administrating a 10-person committee. As Welfare Coordinator for the Nabla Revue, managed a committee of 18 members and arranged weekly social activities such as game shows, quizzes, and themed parties. Consistent experience in creating positive social environments and managing larger groups.

### **ESN Trondheim Buddy Committee**

*Aug 2024 - May 2025*

Organized and had main responsibility for various social events for international students in Trondheim.

### **EWB NTNU Engineers Without Borders**

*Aug 2024 - May 2025*

Hosted and produced a podcast about aid work for students.