Oliver Ekeberg

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Summary

Im currently studying applied mathematics, majoring in computational science. My dream is to become an AI researcher. With a background from data science and business applications, I am gaining additional theoretical depth in mathematics

Work Experience

Part-time Worker, REMA 1000 Oct 2024 – present

Gained practical experience in one of the busiest stores in the region:

- Delivered efficient customer service in a high-pressure environment.
- Collaborated closely with colleagues to ensure smooth daily operations.
- Strengthened communication and problem-solving skills under stress.

Risk Analyst Intern, BISO Invest Sep 2023 – Aug 2024

– Developed an API (Python, Wireshark) to retrieve and format portfolio holdings into JSON, enabling detailed analysis and stress testing.

– Conducted statistical analysis of portfolio returns, including parameter fitting and volatility forecasting, to support risk management decisions.

– Enhanced sector exposure analysis by combining quantitative data with sentiment analysis of financial news, improving assessment of portfolio risks.

Projects

Robotic Arm with Lamp GitHub 2025

Designed and 3D-printed a 5-DOF robotic arm in FreeCAD, powered by Raspberry Pi + servo motors. Integrated control system for positioning and attached lamp as an end effector. Doing this to learn more about electronics. Planning to expand to control the arm with voice input, with for instance Ollama and Whisper APIs

Reinforcement Learning Game GitHub 2025

Created a custom 2D two-player game environment. Implemented reinforcement learning agents to explore cooperative/competitive strategies, using Gymnasium-compatible APIs. Me and my coworker, Daniel Grønhaug, plan to extend the work to 3D real-world drones. This research is a part of the AI Fight Club competition hosted by Lockheed Martin

Education

2021 – 2024 BSc (Data Science for Business), **BI Norwegian Business School** (GPA: 4.0/5.0)

Relevant courses:

- Machine Learning – built models for classification and prediction.
- Data Management – designed and optimized SQL databases.
- Business Analytics – applied statistical methods to real business cases.

2024 – present BSc (Applied Mathematics, Computational Science), **University of Oslo** (GPA: 4.0/5.0)

Relevant courses:

- Numerical Analysis – implemented ODE/PDE solvers in Python.
- Advanced Linear Algebra - built up theoretical framework from the ground and up. Major topics covered: Functional analysis in vector spaces, inner product spaces, fourier analysis
- Control theory - As a side note, Im taking research courses in Control Systems and Cybernetics, as a fun application of mathematics, with a high relevance to computational science

Publications

Skills

Some Skills	This, That, Some of this and that etc.
Some More Skills	Also some more of this, Some more that, And some of this and that etc.