Magnus Berg Sletfjerding

Professional Experience

CORTI.AI COPENHAGEN, DENMARK

Startup building intelligent machines for augmented medicine.

Machine Learning Engineer, Data Engineer

Aug 2020-May 2024

- Developed alignment framework for LLM summarization to reduce unfounded hallucinations by 70%.
- Built a data platform for customers, driving **upsells of +30% on existing contracts** with analytics dashboards.
- **Secured market entry with new client** by prototyping ML-powered conversation dashboards for prospects.
- Decreased the latency on audio streaming by 70%, and reduced packet loss on offline ingestion by 90%.
- Built Elasticsearch/Spacy analytics product giving semantic insights of medical emergency calls to QA officers
- Migrated CI setup from AWS to Azure, decreasing end2end test time from 12 hours to 30 minutes.
- Refactor internal Machine Learning data API to ingest data 20x faster with client-side preprocessing.
- Led forthnightly Machine Learning Guild Meetings for knowledgesharing,

HATZAKIS LAB, UNIVERSITY OF COPENHAGEN

Frederiksberg, Denmark

Biophysics laboratory using single-particle microscopy to understand biological systems.

3+5 PhD Student

Feb 2019-Apr 2021

- Built a platform for fast, automatic, standardized analysis of smFRET traces with Machine Learning DeepFRET.
- Simulation of small molecule docking on redox enzymes CYPOR conformational dynamics.
- Statistical analysis library for barcoding single nanoparticles for high-throughput assays in SPARCLD.

MAN Energy Solutions

Sydhavn, Denmark

World leading manufacturer of large ship engines

Student Assistant

Sep 2019-Aug 2020

- U-NET segmentation of microscopy images to quantify wear of piston ring coatings.
- Characterizing graphite defects in cast iron by morphology analysis.

Vangshaugen Tourist Cabin

Grødalen, Norway

Historic "Salmon Castle" at 740 masl serving 100s of summer tourists annually

Seasonal Staff / Dreng

Jul 2018-Aug 2018

- Day-to-day maintenance of 120-year old hospitality facilities.
- Bartending and serving food at weddings and birthday dinners in "Storstua".
- Tenant relations, reception work, cafe hours, and serving 3 meals a day.

BIOMAR A/S TRONDHEIM, NORWAY

One of the world's largest manufacturers of quality feed for the fish and shrimp farming industries

Summer Intern, Procurement and Sourcing

2016, 2017

- Updating SharePoint, Excel, and M3 databases with biochemical analysis results for shipments
- Maintaining Excel spreadsheets and assisting in preparing Q3 reports
- Taking minutes at multilingual phone meetings in the Back Office department

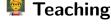
TupperWare Trondheim, Norway

Best recognized consumer brand for kitchen and food storage solutions.

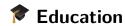
Sales Representative

Summer 2015

- Organize TupperWare sales meetings with clients, demonstrating use cases for both classic and innovative products.
- Manage records of hosts, parties, sales orders, and book-keeping.



Symbolic Artificial Intelligence Knowledge Representation, logic, heuristics, agents, search, ethics **Applied Spectroscopy** UV-Vis, IR, NMR(1D, 2D) and Mass Spectroscopy **Nanobiology** Lab work + Data Analysis in Python



University of Copenhagen

Copenhagen, Denmark M.Sc. Nanoscience GPA: 10.9

Exchange Semester: Sino-Danish Center, University of Chinese Academy of Sciences, Beijing Coursework: Advanced Methods in Applied Statistics, Physics of Biological Nonequilibrium Systems

Thesis: Generative Modelling of Sequential Data Grade: 12

University of Copenhagen

B.Sc. Nanoscience GPA: 8.8

Copenhagen, Denmark

Trondheim, Norway

Coursework: Electromagnetism, Thermodynamics, Quantum Mechanics, Statistics/Probability

Thesis: Barcoding of subresolution particles in a single-particle regime Grade: 12

Trondheim Cathedral School International Baccalaureate Bilingual Diploma Programme

Higher Level Subjects Chemistry, Physics, Mathematics, English Literature

Final Exam Score 39 points Seven Lakes High School Katy, TX, USA

Distinguished Achievement Programme

Electives Varsity Cross Country, AP World History, Jazz Band

Extra-Curriculars

Nørrebro Klatreklub	Webmaster, Board Member, Climbing Instructor	2020-2024
European Youth Parliament Denmark	Founder, Board Representative	2016-2020
European Youth Parliament	Chairperson , Journalist, Media Team Editor	2014-2017
Tekna (Tech&Science Union)	Student Contact, Head of group (Copenhagen)	2019-2021
Hørhus Kollegiet	Board Member, Bar Committee, Sauna Committee	2015-2019



📤 Expert: Python (Pandas, Tensorflow, PyTorch, FastAPI, gRPC), SQL, DBT, Azure/AWS, Latex, Git/Terminal, VSCode/IntelliJ, Data Analysis/Visualization

🧇 Proficient: DevOps, HTML, CSS, Dart/Flutter, Firebase, Organizational Development, Android Studio, JavaScript (React), Typescript, MATLAB

Languages

🤙 Native/Bilingual : English, Danish, Norwegian

Proficient : Spanish, French 🤏 **Novice** : Mandarin