Magnus Berg Sletfjerding

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💼 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.

🧑‍🏫 Teaching

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

🎓 Education

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	**Copenhagen, Denmark**
B.Sc. Nanoscience	GPA: 8.8

Coursework: Electromagnetism, Thermodynamics, Quantum Mechanics, Statistics/Probability
Thesis: Barcoding of subresolution particles in a single-particle regime — **Grade: 12**

Trondheim Cathedral School	**Trondheim, Norway**

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

🖐 Skills

👍 **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