

Curriculum Vitae

Kasper Munk Rasmussen

Personal information

Nationality: Danish

Current Address:
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Programming skills

Data science and machine learning in Python (Numpy, Pandas, Sklearn, Matplotlib, PyTorch, Jax, Huggingface Transformers), object-oriented software development (C#, C++, F#), databases (PostgreSQL, SQLite, MongoDB), cloud deployment (AWS, Heroku, DigitalOcean), web servers and REST APIs (Flask, FastAPI, Node.js), functional programming (Lean, F#)

ML experience

Transformer LLMs - including masters thesis on mechanistic interpretability of pre-trained Transformer language models investigating superposition, extensive knowledge of large language model literature from following papers, side projects and consulting for a startup using API calls to language models using structured generation. Research projects in VAE for biological data, bachelor project on unsupervised object-centric representation learning in vision, several ML courses in bachelor and Masters (incl. machine perception, adversarial robustness, probabilistic machine learning, course projects on collaborative filtering, image segmentation, RL, adversarial robustness). *Most of this has been hundreds of hours of PyTorch, but increasingly I am using Jax/Flax. Good understanding of Huggingface transformers, peft and trl, datasets.*

Education and professional experience

03/2025 -	Travelling and consulting
04/2024 - 03/2025	Software engineering consultant, Netcompany, Denmark Agile full-stack software development on official Danish citizen portal www.borger.dk , one of the most visited Danish websites
12/2023 - 03/2024	Job search
09/2021 - 11/2023	Master of Computer Science, ETH Zürich Major in Machine Intelligence, minor in Theoretical Computer Science, electives focused on neuroscience and bioinformatics Thesis (top grade): <i>Understanding Features in Superposition in Transformer Language Models</i> GPA: 5.4/6
09/2018 - 06/2021	Bachelor of Computer Science, University of Copenhagen Thesis (top grade): <i>Unsupervised learning of objects and concepts with a focus on medical images</i> GPA: 11.6/12

	Data Science specialization
04/2018 - 06/2018	Working as substitute teacher at Klippen Skole (elementary school)
01/2018 - 03/2018	Travels in India and Indonesia
08/2017 - 12/2017	Testrup Academy (Højskole) Højskole is a distinctly Danish phenomenon: A traditional folk non-academic no-diploma school focusing on reflection, maturation and community.
10/2016 - 06/2017	Working as a substitute teacher at Voel Skole (elementary school)

Teaching assistant (T.A.) work experience

Exercise classes, assignment help, assignment feedback and grading, recording exercise solution videos, exam grading help, and more.

01/2021 - 04/2021	<i>Algorithms and Data Structures</i> , Dep. of Computer Science, Uni. of Copenhagen
11/2020 - 01/2021	<i>Modelling and Analysis of Data</i> , Dep. of Computer Science, Uni. of Copenhagen
09/2020 - 11/2020	<i>Mathematical Analysis and Probability Theory in Computer Science</i> , Dep. of Computer Science, Uni. of Copenhagen

Volunteering

09/2016 - 06/2017	Volunteer in DFUNK (<i>refugees</i>) and Base To Go (<i>refugees</i>) Danish language learning for adults and social events for young people
08/2013 - 09/2016	Volunteer in Blå Kors (<i>alcohol abuse</i>) Activities for children on full weekend events

Leadership

01/2021 - 09/2021	Participant and board member, Ryesgade Kollegiet (<i>student dormitory council</i>) Discussion and decisions on dormitory issues
09/2018 - 09/2020	Participant and board member, Datalogisk Fagråd (<i>student council</i>) Discussion of student issues, communication between university and student body
08/2013 - 09/2016	Leader in IMU (<i>Christian youth group</i>) and KFS (<i>Christian youth group</i>) Planning and executing weekly events and discussions

Additional skills

Languages	Danish (fluent), English (fluent), German (beginner)
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References

Mehdi Nadif
Senior Architect, Netcompany
Email: mahn@netcompany.com

Valentina Boeva
Department of Computer Science, ETH Zürich
Semester project advisor
Email: valentina.boeva@inf.ethz.ch

Rhagavendra Selvan
Assistant Professor, Department of Computer Science, University of Copenhagen
Bachelor's thesis advisor
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