Mathematical problemsolver with flair for AI and optimization
Jonas Søeborg Nielsen

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📍 Kongens Lyngby, Copenhagen, Denmark

〈/〉 Programming

Python	Julia	Matlab
C/C++	R	Java
SAS	HTML	New?

🌐 Languages

Danish	English	German
Native	Fluent	Basic

👤 About Me

I am an active and curious person who keeps both body and mind engaged through fitness, running, climbing, and strategic games. I enjoy board and computer games, especially those requiring strategy and cooperation. I often combine solo gaming with watching entertainment, news, or documentaries on YouTube. My interests enhance both my mental and physical abilities and help me develop skills in collaboration, strategy, discipline, and learning. I find it motivating to work with new people and experience how their perspectives and strengths complement my own.

📑 References

megajosni.github.io

👤 Professional Profile

Engineer in Mathematical Modelling and Computation with a strong passion for solving complex real-world problems using mathematical and data-driven methods. Experienced in machine learning, deep learning (AI), simulation, scientific computing, and optimization. I approach challenges in a structured, analytical, and goal-oriented way and thrive in fast-learning environments - even when facing something unfamiliar, I'm confident in my ability to learn it - quickly and effectively.

🛠️ Core Competencies

✓ Mathematical Modelling	✓ Optimization
✓ Machine Learning	✓ Data Analysis
✓ Numerical Algorithms	✓ Simulation
✓ Technical Communication	✓ Collaboration

🎓 Education

MSc Eng Mathematical Modelling and Computation // DTU
Sep. 2022 – Mar. 2025

I have specialized in machine learning techniques focusing on deep learning, computer vision, Bayesian and model-based machine learning, computational data analysis, and high-performance computing. My thesis involved a deep investigation into Universal Physics-Informed Neural Networks for discovering hidden/unknown dynamics in dynamical systems.

BSc Eng Mathematics and Technology // DTU
Sep. 2019 – May 2022

I have acquired fundamental knowledge and skills in applied mathematics and data-driven techniques with a focus on mathematical modelling, optimization, and numerical methods through courses in machine learning, graph theory, image analysis, operations research, numerical algorithms, simulation, statistics, probability, advanced mathematics, and programming.

💼 Experience

Teaching Assistant // DTU
Sep. 2024 - Dec. 2024

As a teaching assistant in the courses Deep Learning, Introduction to Programming, and Multivariate Statistics, I have developed strong skills in communicating technically complex topics to individuals with limited prior knowledge, which has strengthened my abilities in both communication and technical guidance.

Service Employee & Crew Trainer // McDonald's Hillerød
Jul. 2014 - Oct. 2021

Over 7.5 years at McDonald's - 2 years as a service employee and 5.5 as a Crew Trainer - I gained valuable experience in teamwork, communication, and handling high-pressure environments. I developed a strong sense of responsibility, an eager to support others' growth alongside my own within the organisation, and built a deep respect for structure, schedules and leadership.

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