Michal Rynowiecki

Copenhagen • michal_rynowiecki@outlook.com • +45 91835445

Education

Master of Science in Computer Science Copenhagen
IT University of Copenhagen 2024
Specialization: Statistical Modelling and Simulation

Bachelor of Science in Data Science
IT University of Copenhagen 2021-2024
GPA: 10.16/12
Relevant Coursework: Linear Algebra and Optimization, Algorithms and Data Structures, Statistics, Machine Learning, Operating Systems and C, Introduction to Databases, Functional Programming, Large-Scale Data Analysis, Data Visualization

Professional Experience

Research Assistant Copenhagen
IT University of Copenhagen 2024
Real-time Evolution Learning in NMMO Project

- Designed and deployed machine learning models in PyTorch to simulate a many-agent environment
- Implemented multi-processing in Python to utilize multi-core HPC
- Novelized an OpenAI gym-based system to facilitate evolution learning

Mathematics Tutor
Self-employed 2023-2024

- Taught linear algebra, calculus, statistics and probability at undergraduate level

Full Stack Software Engineer
Tietgen Festival 2022-2023

- Established analytics tracking through the festival website
- Built the official website using .NET framework

Projects

Dialect Shift in NER: Comparative Analysis 2023

- Designed and conducted experiments to investigate LLMs performance
- Fine-tuned, deployed and evaluated hugging face RNN and BERT models using TensorFlow

Wind Energy Prediction 2022

- Designed and deployed a Machine Learning pipeline using Spark
- Utilized MLFlow for evaluation
- Used Tableau for analysis and visualization

NES Emulator 2023

- Created a functional NES emulator using C
- Evaluated performance and performed reverse engineering in Assembly

Skills

Data Science: Python, PyTorch, NumPy, Pandas, SciKit-Learn, MLFlow, SQL, R, Tableau, Excel
Development: .NET, C#, F#, C, Java, Linux/Unix
Languages: English, Polish, Danish

Leadership

ALife Conference 2024
Artificial Life conference

- Attended student/advisor meetings to facilitate activities
- Collaborated with Associate Dean to ideate and plan for an international research event