ARASH DARAKHSH

Al Engineer / Data Scientist / ML Engineer Chalmers Graduate - M.Sc. Data Science & Al

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in Arash-Darakhsh

O Darakhsh1999

Personal Website

About me

Physicist and programmer with a big interest in machine learning, automotive engineering and Al Agents. Deep knowledge and experience in implementing computer vision (CV) and large language models (LLMs). Problem solver at heart, technology nerd, chess enthusiast and avid Formula-1 fan.

Work Experience

Associate Research Engineer & M. Thesis 🔼

GKN Aerospace Sweden AB

- January 2023 December 2024
- Trollhättan, Sweden
- Python, PyTorch, openCV, Scikit-learn
- Deep Learning & Computer Vision
- Full pipeline in developing deep learning models (CNN & Transformers) for industrial applications

Summer Job - Software Developer 🔀

GKN Aerospace Sweden AB

Summer 2023

- Trollhättan, Sweden
- · Continuous integration of ML models

Summer Job - Assistant Plumber (VVS)

Kungälvs rörläggeri AB

- Construction from schematic drawings
- Installation of radiators, drainage systems, bathrooms, heat pumps, water pipes etc.

Education (4.4/5.0 GPA)

M.Sc. Complex Adaptive Systems (Data Science & AI) - MPCAS

Chalmers tekniska högskola 🏛

2021-2023

- Gothenburg, Sweden
- Topics: Deep learning, computer vision, neural networks, statistics, optimization, data structures & algorithms. M.Sc Thesis

B.Sc. Engineering Physics - TKTFY

Chalmers tekniska högskola 🏛

2018-2021

- Gothenburg, Sweden
- Topics: Mathematical analysis, theoretical physics, experimental physics, programming and statistics. B.Sc. Thesis

</>Portfolio projects </>

- 🗘 | 🏓 OpenAl GPT2 from scratch
- 🕥 | 🏕 Multi-Agent Data Analytics System
- 🗘 | 🏶 Formula-1 MCP Server
- ADAS U-Net road segmentation
- | Scientific Article RAG Application

Programming

Python **?**

Deep/Machine learning, data science, data visualization, statistics, applications, APIs and personal projects.

C/C++

Algorithms, memory management, GPU (openCL), vector intrinsics, optimization and high performance computing (HPC).

MySQL

Data tabulation, vector DB, online bot user logging and querying.

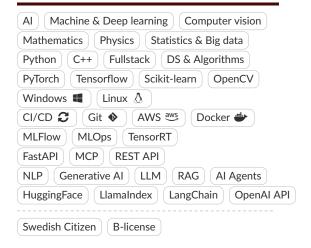
R 😱

Statistical analysis, Regression, machine learning, data visualization, data manipulation, feature selection and time series analysis.

HTML ፱ / CSS ፱ / JS ந

Fullstack, frontend apps, websites, landing pages, npm, NodeJS, React.

Skills & Merits



Languages

Swedish	Fluent, Native (citizen)
English	Fluent, B2
French	A2

Relevant courses

Complete Course List 🗹
Algorithms For Machine Learning and Inference
Machine Learning for Natural Language Processing
Statistical Learning for Big Data
Artificial Neural Networks
High Performance Computing
Image Processing