ARASH DARAKHSH

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

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Arash-Darakhsh

O Darakhsh1999

Personal Website

Sweden

About me

Physicist and programmer with a big interest in machine learning, automotive engineering and AI 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

GKN Aerospace Sweden AB

Associate Research Engineer & M. Thesis 🗹

In charge of full pipeline in developing computer vision and deep learning models for industrial applications in the domain of computer vision. [Python, PyTorch, openCV, Scikit-learn]

Summer Internship - ML Engineer 🔼

Summer 2023

Implemented results from Master thesis. Continuous integration of ML models into a HMI-applicable system. [Python, PyTorch]

Kungälvs Rörläggeri AB

Summer Job - Assistant Plumber (VVS)

 Construction from schematic drawings. Installation of radiators, drainage systems, bathrooms, heat pumps, water pipes etc. Hands-on work with tools and machines.

Education (4.4/5.0 GPA)

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

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

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

♠ Scientific Article RAG Application

| Formula-1 MCP Server

♠ ADAS U-Net road segmentation

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 **3**

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

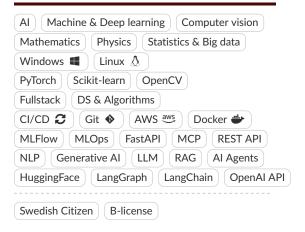
R 😱

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

HTML ፱ / CSS ፱ / JS Js

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