# 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
- Road Segmentation Tool
- 🞧 | 🗬 ADAS U-Net road segmentation
- Autonomous Active Learning
- G | C General Matrix Multiplication

## **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

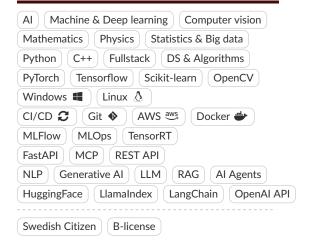
Data tabulation, vector DB, online bot user logging and querying.

HTML ፱ /CSS ፱ /JS Js

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

Computational physics, Simulink, numerical simulations and statistics.

#### **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**