# ARASH DARAKHSH

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

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## **About Me**

Physicist and programmer with a big interest in machine learning, automotive engineering and AI Agents. Deep knowledge and experience in implementing and deploying 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 🗹

苗 January 2023 - December 2024 🎈 Trollhättan, Sweden

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 <a>Image: ML Engineer</a>

**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)

🍵 5 summer breaks during 2014-2021 🌘 Gothenburg, Sweden

• 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 Z

### **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 </>

🕜 | 🏓 Ollama Agents

🗘 | 🏓 OpenAl GPT2 from scratch

🕥 | 🏕 Multi-Agent Data Analytics System

🞧 | 🏶 Formula-1 MCP Server

## Programming

#### Python **?**

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

#### SQL/NoSQL

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

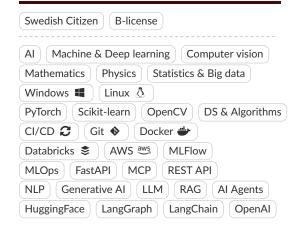
#### R 😱

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

#### HTML ፱ / CSS ፱ / JS JS

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**