# ARASH DARAKHSH

Machine Learning Engineer / Data Scientist / Software Developer Chalmers Graduate - M.Sc. Complex Adaptive Systems

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Personal Website

### ABOUT ME

Physicist and programmer with a big interest in machine learning and automotive engineering. Problem solver, technology nerd, chess enthusiast and avid Formula-1 fan.

### **WORK EXPERIENCE**

#### Associate Research Engineer & M. Thesis

**GKN Aerospace Sweden AB** 

January 2023 - October 2024

Trollhättan, Sweden

- Python, PyTorch, openCV, Scikit-learn
- Deep Learning & Computer Vision
- Full pipeline in developing deep learning models (CNN & Transformer) 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 - MPCAS

Chalmers tekniska högskola

**2021-2023** 

- Gothenburg, Sweden
- Topics: Deep learning, computer vision, neural networks, statistics, optimization, data structures & algorithms
- Master's Thesis

#### **B.Sc. Engineering Physics - TKTFY**

Chalmers tekniska högskola

**2018-2021** 

- Gothenburg, Sweden
- Topics: Mathematical analysis, theoretical physics, experimental physics, programming, statistics
- · Bachelor's Thesis

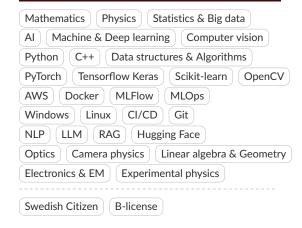
### PORTFOLIO / HOBBY PROJECTS

- RST Road Segmentation Tool
- ADAS U-Net road segmentation
- ACL Autonomous Active Learning
- C-GEMM C++ General Matrix Multiplication

### PROGRAMMING

Language	Experience
Python	Deep/Machine learning, data science, applications, personal projects and master thesis.
C/C++	Algorithms, memory management, GPU (openCL), vector intrinsics optimization and high performance computing (HPC).
Matlab	Computational physics, numerical simulations and statistics.
MySQL/SQLite3	Data tabulation, online bot user logging and querying.
LabVIEW	Experimental physics and sensor acquisition.

### 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

Data Structures and Algorithms

**Artificial Neural Networks** 

**High Performance Computing** 

**Image Processing**