# ARASH DARAKHSH

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

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Personal Website

Gothenburg, Sweden

## 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

**GKN Aerospace Sweden AB** 

- 2024, March-October
- Trollhättan, Sweden
- Python, PyTorch, openCV, Scikit-learn
- Deep Learning & Computer Vision
- Full pipeline in developing deep learning models for industrial applica-

#### Summer Job - Software Developer

**GKN Aerospace Sweden AB** 

- able 2023, June-July
- Trollhättan, Sweden
- · Continuous integration of ML models

### Summer Job - Assistant Plumber (VVS)

Kungälvs rörläggeri AB

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

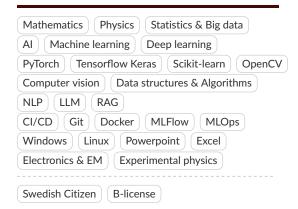
## PORTFOLIO / HOBBY PROJECTS

- RST Road Segmentation Tool
- ACL Autonomous Active Learning
- Stochtimizer Stochastic Optimization Library
- 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 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 Advanced Machine Learning with Neural Networks Machine Learning for Natural Language Processing Mathematical statistics Statistical Learning for Big Data Data Structures and Algorithms Artificial Neural Networks High Performance Computing

**Image Processing** 

Stochastic Optimization Algorithms