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. My biggest strengths are computer vision (CV) and natural language processing (NLP). Problem solver, technology nerd, chess enthusiast and avid Formula-1 fan.

Work Experience

Associate Research Engineer & M. Thesis

GKN Aerospace Sweden AB

- **a** January 2023 October 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 - 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 and statistics. Bachelor's Thesis

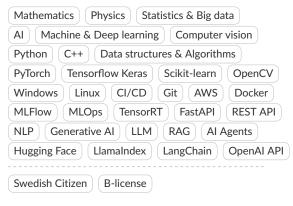
Portfolio / Hobby projects

- 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, data visualization, statistics, applications, APIs and personal projects.
C/C++	Algorithms, memory management, GPU (openCL), vector intrinsics, optimization and high performance computing (HPC).
Matlab	Computational physics, Simulink, numerical simula- tions and statistics.
MySQL/SQLite3	Data tabulation, vector DB, 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