

ARASH DARAKHSH

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

@ darakrash@protonmail.com in Arash-Darakhsh Darakhsh1999 Personal Website Gothenburg, Sweden

WORK EXPERIENCE

Associate Research Engineer

GKN Aerospace Sweden AB

2024, March-October Trollhättan, Sweden

- Deep Learning & Computer Vision
- Full pipeline in developing deep learning models for industrial applications

Summer Job - Software Developer

GKN Aerospace Sweden AB

2023, June-July - 5 weeks Trollhättan, Sweden

- Continuous integration of ML models

Summer Job - Assistant Plumber (VVS)

Kungälv's rörlägeri AB

5 summers during 2014-2021 Gothenburg, Sweden

- Construction from schematic drawings
- Installation of radiators, drainage systems, bathrooms, heat pumps, water pipes etc.

EDUCATION

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

HOBBY PROJECTS

- RST - Road Segmentation Tool
- ACL - Autonomous Active Learning
- Stochtimizer - Stochastic Optimization Library
- C-GEMM - C++ General Matrix Multiplication

PROGRAMMING

Language	Experience
Python	Personal projects, machine learning and master thesis.
C/C++	Memory management and high performance computing (HPC).
Matlab	Computational physics, numerical simulations and statistics.
MySQL/SQLite3	Basics of data tabulation, online bot user logging and querying.
Java	Introduction to programming and object oriented programming.
LabVIEW	Experimental physics and sensor acquisition.

SKILLS

- Mathematics Physics Statistics
- Machine learning Deep learning
- PyTorch Tensorflow Keras Scikit-learn OpenCV
- ML CV NLP HPC Big data
- Docker MIFlow MLOps
- Windows Linux Vim LaTeX Git
- Powerpoint Excel
- Electronics & EM Experimental physics
- B-license

LANGUAGES

Swedish Fluent, Native

English Fluent, B2

French A2

RELEVANT COURSES

- Complete Course List
- Algorithms For Machine Learning and Inference
- Advanced Machine Learning with Neural Networks
- Mathematical statistics
- Statistical Learning for Big Data
- Data Structures and Algorithms
- Artificial Neural Networks
- High Performance Computing
- Image Processing
- Stochastic Optimization Algorithms
- Machine Learning for Natural Language Processing