ARASH DARAKHSH

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

@ darakrash@protonmail.com

in Arash-Darakhsh

O Darakhsh1999

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

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)

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

- 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

- 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

Mathema	tics Physics Statistics & Big data
Al Mad	chine learning Deep learning
PyTorch	Tensorflow Keras Scikit-learn OpenCV
Compute	r vision Data structures & Algorithms
NLP LI	LM RAG
Docker	MLFlow MLOps
Windows	Linux Vim LaTeX Git
Powerpoi	nt Excel
Electronic	cs & EM Experimental physics
Swedish (Citizen B-license

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