ARASH DARAKHSH

Chalmers Graduate - M.Sc. Complex Adaptive Systems

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Arash-Darakhsh

O Darakhsh1999

Gothenburg, Sweden



EDUCATION

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)

Kungälvs rörläggeri AB

- **5** summers during 2014-2021
- Gothenburg, Sweden
- Construction from schematic drawings
- Installation of radiators, drainage systems, bathrooms, heat pumps, water pipes etc.

PROJECTS

Master's thesis - Domain Validation and Continuous Improvement of Industrial Deep Learning Models

- **2**023, 6 months
- GKN Aerospace Sweden AB, Trollhättan
- Deep learning, defect detection, industry 4.0

Bachelor's thesis - Karakterisering och spårning av nanopartiklar med djupinlärning

- **2021**, 6 months
- Chalmers, Gothenburg
- Deep learning, computer vision, object detection
- 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.

RELEVANT COURSES

Complete Course	List
Algorithms For M	achine Learning and Inference
Advanced Machin	ne Learning with Neural Networks
Mathematical sta	tistics
Statistical Learnin	g for Big Data
Data Structures a	nd Algorithms
Artificial Neural N	letworks
High Performance	e Computing
Image Processing	
Stochastic Optimi	ization Algorithms
Machine Learning	for Natural Language Processing

SKILLS

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

LANGUAGES

Swedish	Fluent, Native
English	Fluent, B2
Farsi	Fluent
French	A2