ARASH DARAKHSH

Chalmers Graduate - M.Sc. Complex Adaptive Systems

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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

- able 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

- **2**021, 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

Coi	mplete Course List (Hyperlink)
Algorithms For Machine Learning and Inference	
Ad	vanced Machine Learning with Neural Networks
Ma	thematical statistics
Sta	itistical Learning for Big Data
Dat	ta Structures and Algorithms
Art	cificial Neural Networks
Hig	gh Performance Computing
lma	age Processing
Sto	ochastic Optimization Algorithms
Ma	chine 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