ARASH DARAKHSH

Al Engineer / ML Engineer / Data Scientist Chalmers Graduate - M.Sc. Complex Adaptive Systems

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in Arash-Darakhsh

O Darakhsh1999

Personal Website

About me

Physicist and programmer with a big interest in machine learning, automotive engineering and AI Agents. Deep knowledge and experience in implementing computer vision (CV) and large language models (LLMs). Problem solver at heart, technology nerd, chess enthusiast and avid Formula-1 fan.

Work Experience

Associate Research Engineer & M. Thesis

GKN Aerospace Sweden AB

- January 2023 December 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

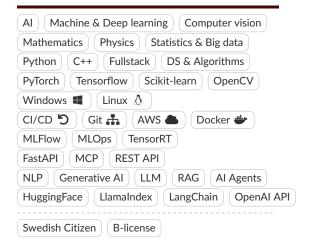
</>Portfolio projects </>

- 🗘 | 🏕 OpenAl GPT2 from scratch
- 🔘 | 🏶 Road Segmentation Tool
- 🞧 | 🗬 ADAS U-Net road segmentation
- Autonomous Active Learning
- G | C General Matrix Multiplication

Programming

Language	Experience
Python	Deep/Machine learning, data science, data visualiza- tion, statistics, applications, APIs and personal projects.
C/C++	Algorithms, memory management, GPU (openCL), vector intrinsics, optimization and high performance computing (HPC).
MySQL	Data tabulation, vector DB, online bot user logging and querying.
HTML/CSS/JavaScript	Fullstack, frontend apps, websites, landing pages, npm, NodeJS, React.
Matlab	Computational physics, Simulink, numerical simula- tions and statistics.

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

Artificial Neural Networks

High Performance Computing

Image Processing