


ARASH DARAKHSH

AI Engineer / Data Scientist / ML Engineer
Chalmers Graduate - M.Sc. Data Science & AI

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 Gothenburg, Sweden

 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)

Kungälv's rörlägeri AB

 5 summer breaks during 2014-2021  Gothenburg, Sweden


- 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 (Data Science & AI) - MPCAS

Chalmers tekniska högskola 


 2021-2023  Gothenburg, Sweden

- Topics: Deep learning, computer vision, neural networks, statistics, optimization, data structures & algorithms. **M.Sc Thesis** 











B.Sc. Engineering Physics - TKTFY

Chalmers tekniska högskola 

 2018-2021  Gothenburg, Sweden

- Topics: Mathematical analysis, theoretical physics, experimental physics, programming and statistics. **B.Sc. Thesis** 

Portfolio projects

-  |  OpenAI GPT2 from scratch
-  |  Multi-Agent Data Analytics System
-  |  Formula-1 MCP Server
-  |  ADAS U-Net road segmentation
-  |  Scientific Article RAG Application

Programming

Python

Deep/Machine learning, data science, data visualization, 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.

R

Statistical analysis, Regression, machine learning, data visualization, data manipulation, feature selection and time series analysis.

HTML / CSS / JS

Fullstack, frontend apps, websites, landing pages, npm, NodeJS, React.



Skills & Merits





AI Machine & Deep learning Computer vision

Mathematics Physics Statistics & Big data

Python C++ Fullstack DS & Algorithms

PyTorch Tensorflow Scikit-learn OpenCV

Windows  Linux 

CI/CD  Git  AWS  Docker 

MLFlow MLOps TensorRT

FastAPI MCP REST API

NLP Generative AI LLM RAG AI Agents

HuggingFace LlamaIndex LangChain OpenAI API

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

Machine Learning for Natural Language Processing

Statistical Learning for Big Data

Artificial Neural Networks

High Performance Computing

Image Processing