ARASH DARAKHSH

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

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About Me

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

Work Experience

GKN Aerospace Sweden AB

Associate Research Engineer & M. Thesis ↗

📅 January 2023 - December 2024   📍 Trollhättan, Sweden

In charge of full pipeline in developing computer vision and deep learning models for industrial applications in the domain of computer vision.

[Python, PyTorch, openCV, Scikit-learn]

Summer Internship - ML Engineer ↗

📅 Summer 2023

Implemented results from Master thesis. Continuous integration of ML models into a HMI-applicable system. [Python, PyTorch]

Kungälvs Rörläggeri AB

Summer Job - Assistant Plumber (VVS)

📅 5 summer breaks during 2014-2021   📍 Gothenburg, Sweden

- Construction from schematic drawings. Installation of radiators, drainage systems, bathrooms, heat pumps, water pipes etc. Hands-on work with tools and machines.

Education 🎓 (4.4/5.0 GPA)

M.Sc. Complex Adaptive Systems (Data Science & AI)

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

Chalmers tekniska högskola 🏛

📅 2018-2021   📍 Gothenburg, Sweden

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

</> Portfolio projects </>

○ | 🐍 Ollama Agents

○ | 🐍 OpenAI GPT2 from scratch

○ | 🐍 Multi-Agent Data Analytics System

○ | 🐍 Formula-1 MCP Server

Programming

Python 🐍
Deep/Machine learning, data science, data visualization, statistics, applications, APIs and personal projects.

SQL/NoSQL 🗄
MySQL, PostgreSQL, MongoDB. 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 5 / CSS 3 / JS JS
Frontend apps, websites, landing pages, npm, NodeJS, React.

Skills & Merits

Swedish Citizen   B-license

AI   Machine & Deep learning   Computer vision
Mathematics   Physics   Statistics & Big data
Windows 🪟   Linux 🐧
PyTorch   Scikit-learn   OpenCV   DS & Algorithms
CI/CD 🔄   Git ◆   Docker 🐳
Databricks ≋   AWS aws   MLFlow
MLOps   FastAPI   MCP   REST API
NLP   Generative AI   LLM   RAG   AI Agents
HuggingFace   LangGraph   LangChain   OpenAI

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