

# Adam Maen

**Machine Learning Engineer /**  
**Data Scientist**

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## About me

I am a passionate and results-driven software engineer with a deep understanding of machine learning and data science. Skilled in developing and deploying machine learning models, I excel in data preprocessing, feature engineering, model selection, and performance. I am adept at building end-to-end machine learning pipelines. I thrive in agile environments, delivering fast prototypes and collaborating effectively with cross-functional teams. With strong communication skills, I can present complex concepts to technical and non-technical stakeholders.

## Work Experience

### Research Engineer

Uppsala University | Uppsala, Sweden | Aug 2023 - Now

- Perform research and innovation work in the ML field, including inventing technologies and generating data for eventual grant applications.
- Support and develop the use of ML technologies within the department.
- Support in validating artificial intelligence (AI) and ML software.
- Build and serve web tools for data modelling and NLP task related.

### Specialist in Machine Learning and Image Analysis

Antaros Medical AB | Uppsala, Sweden | Jan 2022 - Jan 2023

- Develop, improve and evaluate image analysis methods, mainly using ML methodology.
- Perform company research and innovation work in the ML field, including inventing technologies and generating data for eventual patent applications.
- Support in validating artificial intelligence (AI) and ML software.
- Review source code and give constructive feedback on reviewed code.
- Train users on AI / ML software.

### Data Scientist

TM R&D | Kuala Lumpur, Malaysia | Feb 2020 - Aug 2020

- Train a machine learning model to identify employees and integrate it with a thermal imaging system to build an attendance system that registers employees' check-in/out and their temperature.
- Collect data and train a machine learning model to detect heavy machinery vehicles in construction sites with camera setup on Unmanned Aerial Vehicles (UAV) and send the coordination to a server.

## Research Assistant

IIUM | Kuala Lumpur, Malaysia | Feb 2018 - Dec 2019

- Apply Machine Vision and deep learning algorithms in the medical field, especially with X-ray images.
- Published two papers about data integrity and the threshold of human error in labelling the data to get a valuable machine learning model.
- Built a web-based application to segment lung cancer in 2D medical images.

## Co-founder and Software Engineer

MySenior | Kuala Lumpur, Malaysia | Jan 2019 - Jan 2021

- Built an end-to-end online educational service that helps students find tutors within their university communities.

## Software Engineer (Freelance)

Online | Worldwide | Jun 2016 - Feb 2020

- Built multiple websites for organisations and individual businesses in different categories (NGOs, Educational, Small businesses and Personal websites )
- Did many internships in start-ups with different fields such as Robotics and Saas.

## Skills

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### Data Science

Python (PyTorch, TensorFlow, Keras, Scikit-Learn, Scipy, SimpleITK, OpenCV, ImageIO, Matplotlib, Numpy, Pandas, SQL and more), C++  
Familiar with Spark, Hadoop and ROS.

### Web Development

Php (Laravel), python(FastAPI) JavaScript (VueJS), HTML, CSS (Tailwind, Bootstrap, Bulma), MySQL, MongoDB and Redis.

### DevOps, Tools and Patterns

Docker, Jenkins, AWS, Azure and GCP, OOP, MVC, TDD, UNIX shell and GIT.

## Education

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### Master in Image Analysis and Machine Learning

Uppsala University | Uppsala, Sweden | Aug 2020 - Jun 2022

[Program website](#)

### Bachelor of Computer Science

IIUM | Kuala Lumpur, Malaysia | Feb 2016 - Aug 2020

[Program website](#)

## Online Courses

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### Specialisations on Coursera

- Generative Adversarial Networks (GANs) | (3 courses) | Jun 2021
- IBM Data Science Professional Certificate (10 courses) | Sept 2019
- Deep Learning | (5 Courses) | Oct 2018

**20+ other courses in machine learning and software engineering are listed in my LinkedIn profile.**

## **Languages**

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English ( Fluent ), Swedish ( Intermediate ) and Arabic ( Fluent ),