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WHO AM I?

I'm an enthusiastic machine learning engineer with a background in theoretical physics. I like solving problems, automation, clean code, and corny jokes. During my time at Catawiki I progressed into more of an MLE position when we migrated our data science platform from a PaaS to Kubernetes on GCP. I was responsible for architecting and implementing the new platform as well as ensuring maximal ease of use for all data users. This is how I discovered my passion for software that lets other data scientists do their work with minimal cognitive overhead, and for ensuring that services I am responsible for are set up for current and future success.



EXPERIENCE

2022 - present

Senior Machine Learning Engineer

Booking.com

Member of the Model Building team, part of the Machine Learning Platform track:

- Developing a new platform for ML model development and training in AWS, fully integrated into the Booking internal ecosystem (AWS, Terraform, GitLab CI).
- Creating documentation, usage examples, and demos to aid cloud adoption for ML at Booking.
- Maintenance and user support for our existing on-prem Interactive Development and Model Training internal products (kubernetes, Airflow, MLFlow).

2020 - 2022

Lead Data Scientist - Machine Learning

Catawiki

- Ownership of Catawiki's data science & machine learning platform (Google Kubernetes Engine, various GCP managed services, FastAPI+nginx model serving framework).
- Developed a "one-stop-shop" ML service providing anti-fraud intelligence asynchronously to various services (classical ML, Kafka, MySQL).
- Development and maintenance of several existing ML models & applications in the domains of Engagement and Fraud Prevention (classical ML, LightFM recommender).

2019 - 2020

Senior Data Scientist - Machine Learning

Catawiki

- Lead migration of all Data Science infrastructure from a PaaS to an in-house platform on Kubernetes (Google Kubernetes Engine).
- Revamped recommendations model, improving coverage, training times, and predictive power, using a (customized variant of) LightFM.
- Created user trustworthiness model, allowing trusted users to have a less restrictive experience with minimized risk to the company.

2016 - 2019

Data Scientist & Consultant

Maximizing the value of data for clients through exploratory data analyses, data science proofs of concept, and production machine learning projects as part of the Advanced Analytics & Big Data team. Advisory services for organizations seeking to become more data-driven.

EDUCATION

2014 - 2016

M.Sc. Theoretical Physics

Uppsala University

Followed the "Strings and Quantum Fields" track, including quantum field theory, string theory, general relativity, and various other topics from physics and mathematics. Graduated in June 2016 after the completion of a one semester (30ECT) master thesis on string theory.

2011 - 2014

B.Sc. Physics

Amsterdam University College

Joint international honors academy of the University of Amsterdam and the VU University Amsterdam. Graduated summa cum laude with a thesis on computational plasma physics for fusion energy.

LANGUAGES

English - native **Dutch** - fluent

Python - advanced Javascript - basic

TOOLS & TECHNOLOGIES

Git, Kubernetes, GCP (Kubernetes Engine, BigQuery, Cloud Build), AWS (IAM, SageMaker), Terraform, Docker, SciPy stack, scikit-learn, (Py)Spark, FastAPI, nginx, Kafka, GitLab Cl

Mathematical background, classical ML, recommendations, microservices, CI/CD, MLOps, Infrastructure as Code (IaC), cloud native machine learning, open source software

TECHNIQUES & METHODOLOGIES