Max Kraan

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Experience

May 2017 - Nov 2019 | Data Scientist at Bayes Esports Solutions

- Researched and implemented production-ready machine learning models to predict the outcome of eSports matches (numpy, pandas, spark, scikit-learn)
- Developed and maintained a python backend to respond to gRPC queries from clients and perform real-time inference (Flask, RabbitMQ, Protobuf, gRPC)
- Developed an automated training and evaluation tool for internal data science usage / workflow optimization (Django, Celery, Bootstrap4)
- Developed a "suggestion" API which de-duplicates and enriches scraped data (Flask, MongoDB)

Sept 2016 - May 2017 | Data Analyst at Locafox GmbH

- Developed and maintained ETL processes for business intelligence use cases
- Developed on a database for use by product and marketing stakeholders
- Adhoc data analysis for finance, marketing, and product stakeholders

Dec 2012 - May 2017 | Head Teacher of Physics at IB Academy

- Taught classes of up to 18 students for 4-day intensive revision courses
- Developed and maintained physics course material which is still used to this day

Education

July 2016 | Master of Science in Applied Physics
77/100 *cum laude* | **Cambridge University**, Cambridge, UK
Thesis: "Investigating the thermoelectric properties of $Bi_{2-x}Sb_xTe_3$ Nanowires"

June 2015 | Bachelor of Science in Physics and Mathematics
3.5/4 *cum laude*, **University College of Utrecht**, Utrecht, NL
Thesis: "Simulating the Optical Properties of Silver Nanoshells"

Publications

May 2017 | *Materials* | 10.3390/ma10050553
"Structure and Thermoelectric Properties of $Bi_{2-x}Sb_xTe_3$ Nanowires Grown in Flexible Nanoporous Polycarbonate Templates."

Projects

April 2020 | Achord
Max for Live application for real-time detection of the harmonic pitch profile (HPCP) of an incoming audio signal. Spectral processing is implemented in Node.js.

Languages

Data Science

numpy	●●●●●
pandas	●●●●●
scitkit-learn	●●●●●
tensorflow	●●●●○
pytorch	●●●●○
pyspark	●●●○○

Backend

flask	●●●●○
django	●●●●○
rabbitmq	●●●○○
express	●●●○○
streams	●●●○○

Spoken

english	●●●●●
dutch	●●●●●
german	●●●●○