Laurent KALPERS

DATA SCIENTIST

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PROFILE SUMMARY

With his Engineering background, Laurent loves to solve complex problems using technical tools.

His master in computer science drove him to participate in numerous projects using real-world data.

Laurent is always thriving to develop new skills. In his free time, he enjoys playing video games with friends and playing badminton.

Areas of expertise

- Machine learning (Scikit-learn)
- Deep learning (Keras, Pytorch, TensorFlow)
- Data visualization (Excel, Matplotlib, plotly)
- Mathematical modeling (Python, Matlab, R)
- Deployment (C++, PHP, HTML, Java, SQL)
- Management (Scrum, Kanban)
- Cloud technologies (Azure, GCP)

Languages

- English: fluent
- French: native

PROJECT EXPERIENCE

Manakeen
Liege, Belgium
2022

Machine Learning Engineer Consultant

- Joined E-novation team as a computer vision engineer in a weapon manufacturer
- Developed a lightweight deep learning model to detect specifics objects on a frame
- Deployed this model on an embedded device with real-time requirements
- Involved on numerous projects including synthetic data, human segmentation and target detection

Cognizant
Brussels, Belgium
2021

Junior Data Scientist Consultant

- Joined a team of 16 people as a data engineer at Belgium bank
- Maintaining existing data pipelines and insuring their integrity
- Defined requirements for new data pipeline with non-technical people
- Developed new pipelines, unit tests, integration tests and supervised their deployment in complex existing data architecture
- Developed automated prediction of yearly Belgian energy consumption
- Worked with a team to deliver proof of concept for automated fiber deployment

INHA,
Incheon, South Korea
2020

Research thesis – Detection of stress in the wild using non-invasive data collection devices

- Developed data acquisition app on Android phone and smartwatch
- Conducted data collection campaign for 3 months
- Developed feature extraction based on the literature
- Implemented and compared SVM, XGBoost and decision tree results to predict stress
- Collaborated with University of Mons to get insight from machine learning experts

TheiaLab,
London, United Kingdom
2019

Artificial Intelligence Engineer – Automated gym reports using a camera

- Interacted daily with 3 founders in a start-up environment
- Developed algorithms for tracking individuals on video
- Conducted fine-tuning of pose detection algorithms from open-source GitHub repository
- Ported both algorithms on Jetson Nano microcomputer using C++
- Wrote and presented the final report to the founders, facilitating the use of Jetson Nano in the application and limiting the use of the cloud

EDUCATION DETAIL

FPMs-UMons
2018 – 2020

Master in Engineering - Computer Science and Management

Specialization in Artificial intelligence and Data science – magna cum laude

Thesis: "Detection of stress in the wild using non-invasive data collection devices"

INHA Korea, 2020

Visiting Scholar – Department of Computer Science and Information Engineer

FPMs-UMons
2015 – 2018

Bachelor in Civil Engineering