Michaël de Vries

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EDUCATION

UNIVERSITY OF TWENTE
PREMASTER COMPUTER SCIENCE
Expected Apr 2018 | Enschede
Premaster as minor of bachelor

SAXION UNIVERSITY OF APPLIED SCIENCES
BACHELOR COMPUTER SCIENCE
Expected Nov 2018 | Enschede
Incl. 30EC in big data electives

SKILLS

PROGRAMMING
Python
Java
C
Scala

TOOLS
Linux (CentOS, Ubuntu), Docker, Bash, GDB, cmake, Apache Flink, Apache Storm, Apache Spark, OSGi, Matplotlib, Sklearn, TensorFlow, Keras, PyTorch, Jupyter

EXPERIENCE

LUMINIS | DATA SCIENCE INTERN
May 2018 – Now | Apeldoorn
- Graduate internship for Bsc. Computer science
- Trained a deep learning model for product categorization based on images of products.
- Created an interface for AI assisted product categorization using the trained model.
- Model (and interface) deployment in a docker container.

THALES | SOFTWARE DEVELOPER INTERN
Sep 2016 – Feb 2017 | Hengelo
- Created a python module for Apache Celix, which is a multi-threaded and modular OSGi framework written in C.
- Work involved embedding a python interpreter, C <-> Python interoperability, threading issues, dynamic library loading and debugging with GDB.
- Graded 9 out of 10.

COMYOO | WEB DEVELOPER
Sep 2014 – Oct 2015 | Enschede
- Part-time job during bachelor
- Web development using PHP, HTML, JS, Angular
- Joomla plugin development

PROJECTS

PREMASTER RESEARCH | HUMAN MEDIA INTERACTION
Sep 2017 - Feb 2018 | 10EC | University of Twente
A research on **speech emotion recognition** for the human media interaction section of the university of Twente. The research used speech fragments annotated with the emotions exhibited in the fragments by multiple annotators. The acoustic features of the speech fragments were analyzed to find discriminative features for a low level of agreement between annotators.

DATA STREAMING | JW PLAYER
Feb 2016 - Jun 2016 | 12EC | Saxion university of applied sciences
A group project in cooperation with two data scientist at JW Player. JW Player uses a **lambda architecture** for their video log processing, we were assigned to create a new branch in the **real-time processing** system. We implemented a **Apache Flink** streaming system which gave the top 10 topics of videos played in the past minute. To do so we implemented **topic modeling** using the stanford NPL package and trained a model based on data of the previous hour. The system was connected to **kafka** and wrote to a **redis** database, all of which we hosted on a **AWS cluster**.

WIFI TRACKING | SAXION/MUNICIPALITY OF ENSCHEDE/NDIX
Feb 2015 - Jun 2016 | 12EC | Saxion university of applied sciences
This was the first big project of the bachelor computer science. A tracking system for visitors of the inner city of Enschede was made based on the logs of an open WiFi network with multiple access points in the shopping district. We created an algorithm to determine coordinates of visitors based on signals received by the access points. As a visualization for the municipality we made an HTML front-end using **CartoDB** with heat maps, routes and statistics for every hour of any given day.