Sebastian Dittert

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https://github.com/BY571

Born: 03. June 1992

WORK EXPERIENCE

October 2019 – March 2020

Graduate, Master Thesis at ZF

ZF Friedrichshafen AG, Friedrichshafen

- Master Thesis: Optimization of the Control of Damper System / Chassis System trough fast learning Deep Reinforcement Learning Algorithms

April 2019 – September 2019

Internship Machine Learning

ABB, Cottbus

- Working on development of autonomous reclaiming method for pithead stocks, based on reinforcement learning
- Working on optimization algorithms of mining processes

October 2016 – January 2017

Internship

Euro-k, Cottbus

- Working on Pressure loss calculations for the secondary air system of a turbo group housing
- Comparison and evaluation of 3D scan surface models as part of the company's internal quality assurance system

EDUCATION

2017 – present

Master of Science (Mechanical Engineering)

From Brandenburgische Technische Universität Cottbus-Senftenberg

- Specialization: Automotive Engineering

2012 – 2017

Bachelor of Science (Mechanical Engineering)

From Brandenburgische Technische Universität Cottbus-Senftenberg

- Specialization: Automotive Engineering

Certifications

April 2020 – May 2020

Udacity Nanodegree: Artificial Intelligence

December 2019 – January 2020

Udacity and Intel AI Edge Scholarship

May 2019 – July 2019

Udacity Nanodegree: Deep Reinforcement Learning

November 2017 – November 2018

Udacity Nanodegree: Self-Driving Car Engineer

Udemy Courses

- Deep Learning with PyTorch-Masterclass, January 2019
- Artificial Intelligence A-Z, Dec 2018
- Artificial Intelligence: Reinforcement Learning in Python, August 2017
- Practical Deep Learning with PyTorch, August 2017
- Machine Learning A-Z, June 2017

Technical skills

Programming Languages

- Python
- C++
- Matlab

Deep Learning Libraries

- PyTorch
- Keras

Other

- ROS
- OS: Linux Ubuntu

Projects

December 2017 – June 2018

Construction of a Robo-Car / Autonomous RC-Car (Hardware and Software)

- Predict acceleration and steering angle through camera inputs and a CNN
- Driving autonomously along a track
- Video

June 2019 – ongoing

Implementing Deep Reinforcement Learning Algorithms from scratch with PyTorch

Github

- Reinforcement Learning Upside-Down
- TD3 and SAC
- PG, PPO
- DDQN, Dueling DQN and Add-ons for Rainbow
- Genetic Algorithms and Evolution Strategies based on Neuro-Evolution
- Multi-Agent RL

Personal skills

Strengths

- High self-motivation.
- High curiosity and interest in learning new things.
- Ability to work under pressure.
- Ability to work individually as well as in a team.
- Excellent logical, analytical and computational skills.
- Positive attitude

Languages Known

- German : Native speaker
- English : Fluent
- Spanish : Beginner

Hobbies

- Sports
- Reading
- Cooking
- Technical tinkering
- learning and exploring new things