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 Aachen, GERMANY

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EDUCATION



M.Sc. Electrical and Computer Engineering

2019 - Present

RWTH Aachen University, Aachen, GERMANY | GPA: 1.8 in German Grading System (3.47/4.00)



B.Sc. Electrical and Electronics Engineering

2014 - 2018

Bilkent University, Ankara, TURKEY | GPA: 3.16/4.00, Honor Student

WORK EXPERIENCE



PORSCHE AG, Stuttgart, GERMANY, Data Science Intern

05/2021 - 10/2021

Data driven development for highly automated and assisted driving. Developed a pipeline to improve cut-in detection and scale the results to the unlabeled data.

- Visualized and explored the feature space to find the most important features for cut-in detection.
- Applied weak supervision in scarcity of labeled data to provide weak labels.
- Used supervised learning to combine multiple cut-in detectors and evaluated them to determine the combination that yields the best balance of precision and recall.
- Followed a probabilistic approach to scale the results to the unlabeled data.



RWTH AACHEN UNIVERSITY, Aachen, GERMANY, Student Research Assistant

06/2019 - 04/2021

- Integrated a reinforcement learning framework into 2D (OpenAI Gym) and 3D (SVL Simulator) environments and applied deep reinforcement learning for autonomous driving at the Institute for Communication Technologies and Embedded Systems (RWTH ICE).
- Data analytics on battery data using SQL and Python at the Institute of Power Electronics and Electrical Devices (RWTH ISEA).
- Developed a Raspberry Pi project to control a bioreactor to stimulate tissues at the Institute of General Mechanics (RWTH IAM). Used multiprocessing in Python and implemented a user interface to configure the experiment and display a real-time plot.



SIEMENS SIEMENS, Budapest, HUNGARY, R&D Engineering Trainee

09/2018 - 10/2018

Developed a Raspberry Pi application with a user interface to configure modal analysis for a transformer and plot data.

SKILLS

Programming

Python	C++	MATLAB
Java	SQL	JavaScript
HTML	CSS	

Frameworks & Platforms

TensorFlow	Linux
Keras	scikit-learn
PyTorch	OpenCV

Languages

 Turkish: Native
 English: C1
 German: B1

ACADEMIC PROJECTS

Mobile Controlled Car

Implemented an RC car with a Raspberry Pi using Python to collect data and stream live video and it is controlled by an Android application.

Spoken Digit Recognition

Designed hardware to record speech and processed the signal to recognize the spoken digit using MATLAB.

EXTRACURRICULAR ACTIVITIES AND AWARDS

07/2019 Performed with RWTH Aachen University Choir and Orchestra

2010-2014 Won medals in national and regional tournaments with TED Ankara College handball team

09/2010 Turkish national handball team training camp, Nigde, Turkey