

Stefan Ott

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EXPERIENCE

Machine learning engineer - Video perception

Robert Bosch GmbH 🌐

📅 Apr 2023 - Present

📍 Stuttgart, Germany

- Enabled use-case based model evaluation and established regular quantitative assessments for perception models.
- Implemented continuous qualitative model performance monitoring with Voxel51, reducing team workload.
- Reduced perception model evaluation time by 50% in internal deep learning framework.

Master student research intern

Bosch Center for Artificial Intelligence 🌐

📅 Jan 2022 - Jun 2022

📍 Renningen, Germany

- Contributed novel similarity based few-shot learning methods for visual two-stage detection models.
- Increased the recall on rare classes by 4.5 points using novel methods on the LVIS dataset.

Software engineer - LiDAR base software

Robert Bosch GmbH

📅 Oct 2018 - Sep 2020

📍 Schwieberdingen, Germany

- Developed software variant for HiL testing, increasing PCB quality assurance speed.
- Contributed to LiDAR base software state handling to optimize sensor performance.

Student research intern - Automated driving

Robert Bosch GmbH

📅 Jan 2018 - Aug 2018

📍 Leonberg, Germany

- Contributed an environment based driving criticality metric to project TANGO improving driving state handling.

Student research intern - Language processing

Robert Bosch LLC

📅 May 2017 - Aug 2017

📍 Palo Alto, California, USA

- Fine-tuned interview speech processing using Hidden Markov Models to German language.

SKILLS

Programming languages: Python (2015-present), C (2015-2021), C++ (2018-2022)

Deep learning: PyTorch (2020-present), Tensorflow (2022-present), AzureML (2022-present)

Others: Git (2015-present), Docker (2020-present), Azure Cloud & Databricks(2022-present)

EDUCATION

Computer Science

University of Stuttgart

📅 Oct 2020 - Mar 2023

📍 Stuttgart, Germany

- Courses on computer-science with a focus on intelligent systems (DL, ML, RL) and computer vision
- Semester abroad: University of Melbourne (May-Dec 2022)
- Final GPA: 1.2 (German grading system)

Computer Science

Baden-Württemberg Cooperative State University

📅 Oct 2015 - Sep 2018

📍 Stuttgart, Germany

- Cooperative study program with Robert Bosch GmbH R&D
- Final GPA: 1.9 (German grading system)

A-levels

Gymnasium Gammertingen

📅 Oct 2015 - Sep 2018

📍 Stuttgart, Germany

- Majors: physics, chemistry, mathematics, computer science
- Final GPA: 1.9 (German grading system)

PROJECTS

Chess game

🔧 Python, Pygame

🔗 chess

- Implemented FIDE chess rules in Python using Pygame as visualization engine.
- Enabled rule validation with Perft and added Minimax-search.

Active learning dashboard

🔧 Python, LabelStudio, modAL

🔗 ActiveLearningProject

- Co-contributed deep active learner module to modAL (*2,193 stars).
- Co-implemented monte-carlo dropout based active learning methods.

Autonomous 1:10 vehicle

🔧 C++, OpenCV

🔗 CaroloCar

- Co-implemented camera lane processing & driving tasks.
- Integrated perception stack on Nvidia Jetson.

OTHER INFORMATION

Languages: English (C2), German (Native), Spanish (A2)

Interests: Skiing, Piano, Guitar, Scuba diving, Cycling

Scholarships: National german scholarship 2021&2022, DAAD PROMOS scholarship 2022)