Stefan Ott

Senior Machine Learning Engineer

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EXPERIENCE

Senior Machine Learning Engineer
Robert Bosch GmbH 🌐

📅 Apr 2023 - Present   📍 Stuttgart, Germany

- Led use-case based model evaluation and established regular quantitative assessments for video perception models in a team of 10 people.
- Reduced perception model evaluation time by 45% in internal deep learning framework using Python and Pytorch.
- Continuous performance improvements of semantic segmentation and object detection networks.

Research Intern - Object Detection
Bosch Center for Artificial Intelligence 🌐

📅 Jan 2022 - Jun 2022   📍 Renningen, Germany

- Developed similarity based learning method for two-stage CNN detectors increasing rare object detection rate by 10% on a long-tail dataset.
- Filed patent for the novel similarity few-shot method on how to effectively train CNNs in low data regimes.

Software Engineer - LiDAR Base Software
Robert Bosch GmbH

📅 Oct 2018 - Sep 2020   📍 Schwieberdingen, Germany

- Developed software variant for HiL testing that increased sensor system quality assurance speed by 55%.
- Enhanced LiDAR base software state handling to optimize sensor performance using C/C++.

Research Intern - Automated Driving
Robert Bosch GmbH

📅 Jan 2018 - Aug 2018   📍 Leonberg, Germany

- Development of a criticality metric for situation analysis in automated driving for the project TANGO.

Research Intern - Language Processing
Robert Bosch LLC

📅 May 2017 - Aug 2017   📍 Palo Alto, California, USA

- Fine-tuned interview speech processing systems using Hidden Markov Models for adaptation to the German language.

SKILLS

Programming languages: Python (2015-present), C (2015-2021), C++ (2018-2022)
Deep learning: PyTorch (2020-present), Tensorflow (2022-2024), Scikit (2020-present)
Others: Git (2015-present), Docker (2020-present), Azure Cloud & Databricks(2022-present), Linux (2015-present)

EDUCATION

Master of Science, Computer Science
University of Stuttgart

📅 Oct 2020 - Mar 2023   📍 Stuttgart, Germany

- Specialized on intelligent systems (DL, ML, RL), computer vision, software engineering and architecture
- Semester abroad: University of Melbourne (May-Dec 2022)
- CGPA: 1.2 (German system, Best grade possible: 1.0)

Bachelor of Engineering, Computer Science
Baden-Württemberg Cooperative State University

📅 Oct 2015 - Sep 2018   📍 Stuttgart, Germany

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

A-levels
Gymnasium Gammertingen

📅 Sep 2007 - Jun 2015   📍 Gammertingen, Germany

- Majors: physics, chemistry, mathematics, computer science
- CGPA: 1.9 (German system)

PROJECTS

Active learning dashboard

🔧 Python, deep learning   ○ ActiveLearningProject

- Open source contribution of deep active learner module to modAL (⋆2,193 stars).
- Implemented monte-carlo dropout based active learning methods.

Autonomous 1:10 vehicle

🔧 C++, OpenCV   ○ CaroloCar

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

FIDE chess

🔧 Python, Pygame, Search   ○ chess

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

OTHER INFORMATION

Languages: English (C2), German (Native), Spanish (A2)
Interests: Chess, Piano, Scuba diving
Volunteering: Scouts group (DPSG), Local youth club
Scholarships: National german scholarship 2021&2022, DAAD PROMOS scholarship 2022)