Jovan Cicvaric

Proficient: Python, PyTorch, NumPy, SQLite, PostgreSQL, HTML, Scikit-learn, pandas, Flask, Git, Celery **Familiar:** Keras, React, Docker, Kubernetes, Helm Charts, MLflow, RabbitMQ, Triton Inference, ONNX **Languages:** English (Advanced), German (Intermediate), Serbian (Native), Russian (Fluent)

WORK EXPERIENCE

| 02/2024 – present | Optocycle GmbH, Tübingen (Germany) Machine Learning Engineer Python, PyTorch, Docker, Kubernetes, RabbitMQ, Helm Developed classification model for construction waste, achieving 90+% accuracy Developed model for estimating object sizes with monocular camera Developed labeling pipeline and supervised labeling of more than 20k images Developed model for plastics classification by combining multispectral classification with LLM Conducted studies exploring classification performance in multispectral vs RGB domains |
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| 06/2023 – present 06/2021 – 05/2023 | Autonomous Vision Group, Tübingen (Germany) Research Engineer Research Assistant Flask, React, SQLite, Python Full stack development of a scientific paper recommendation system Scholar- Inbox.com Using personalized models trained on users' previous votes and selected authors for making recommendations. Optimized SQL queries, Python code, and our embedding storage system for lower latency and memory usage extensively. Developed a registration pipeline that facilitated over 20k+ new users |
| EDUCATION | |
| 10/2020 - 05/2023 | University of Tübingen (Germany) Master of Science, Machine Learning, GPA 1.1, Graduated with distinction |
| 09/2016 - 07/2020 | Moscow Institute of Physics and Technology (Russia) Bachelor of Science, Applied Mathematics and Physics, GPA 4.66 (Top 5% student) |
| PROJECTS | |
| 2023 | Generative Dataset Distillation Python, PyTorch, WandB Master Thesis project done under the supervision of Prof. Andreas Geiger Merged dataset distillation and generative modelling fields Our approach, GenDM, ranked 2nd place and won the Best Paper Award at the 2024 Dataset Distillation Challenge (Generative Track). Worked with different generative models, such as StyleGAN2 and StyleGAN-XL Conducted extensive research of existing distillation methods and compared proposed techniques |
| 2021 | Laser-hockey RL Python, PyTorch, OpenAl Gym, NumPy Implemented Deep Deterministic Policy Gradient (DDPG) and Twin Delayed DDPG (TD3) |
| 2021 | CarRacing IL & RL Python, PyTorch, OpenAl Gym, NumPy Implemented Deep Q-Network (DQN), Imitation Learning and Modular pipeline with geometric controller for CarRacing environment from OpenAl Gym |