NIKITA KOSTIN

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PROFILE

Highly initiative and self-motivated machine learning engineer with 6+ years of academic and industry experience. Proficient in Python and has solid knowledge of machine learning algorithms. Proven record of contributions to software development projects from top tech companies. Demonstrated teamwork and supervision skills in several academic and industrial projects.

SKILLS

Software tools:	Python, C++, Julia, PyTorch, TensorFlow, Pandas, ROS2, Git, Docker, LaTex.
Languages:	English (C1), Swedish (B1), German (A2), Finnish (A1), Russian (native).

CERTIFICATES

Generative AI with Large Language Models, Coursera, Jul 2024.

WORK EXPERIENCE

Aalto University   Espoo, Finland
Research Scientist   Nov 2021 - Present

- Research in safe and robust reinforcement learning algorithms for robotics.
- Developed uncertainty-aware safe exploration for reinforcement learning using text-based constraints using a Bayesian cost model, making the agent safely operate in complex, unknown environments (under review).
- Developed robust reinforcement learning algorithm for fast adaptation to unseen dynamical changes using adaptive control (under review).

Huawei Research Center   Moscow, Russia
Machine Learning Engineer   Sep 2019 - Oct 2021

- Research and development of deep learning algorithms for image enhancement and super-resolution.
- Developed a deep learning solution for demosaicing of underscreen camera photos that improved the quality of the images.
- Developed a super-resolution algorithm based on Normalizing Flows that improved the quality of the underscreen camera photos.

Samsung R&D Institute   Moscow, Russia
Machine Learning Engineer   Jun 2018 - Aug 2019

- Research and development of automation algorithms for cloud and mobile applications.
- Developed OpenStack system installation automation that speed up the deployment of the system on a new location.
- Developed AI-based Mobile Testing Automation for Android using Reinforcement Learning that accelerated new features testing.

EDUCATION

Aalto University   Espoo, Finland
PhD in Electrical Engineering (not completed), *GPA: 4.52*   Jan 2022 - Present

Lomonosov Moscow State University   Moscow, Russia
M.Sc in Applied Mathematics, *GPA: 4.05*   Sep 2018 - May 2020

Lomonosov Moscow State University   Moscow, Russia
B.Sc in Physics, *GPA: 4.51*   Sep 2014 - May 2018

CONFERENCES AND WORKSHOPS

Teaching assistant at ProbAI   Helsinki, Finland
Lead TA on Normalizing Flows section of Nordic Probabilistic AI summer school.   Jun 2022

Teaching assistant on RL course   Helsinki, Finland
TA on the Reinforcement Learning course.   Sep 2022 - Present

International Workshop of Intelligent Autonomous Learning Systems   Kleinwalsertal, Austria
Organized by the Intelligent Autonomous Systems lab from TU Darmstadt.   Aug 2023

Generative Modeling Summit   Belgrade, Serbia
Organized by Yandex, it presented the latest technologies behind YaGPT.   Sep 2023

ELLIS Robust Machine Learning Workshop   Helsinki, Finland
Workshop covered important topics of robustness of ML, LLMs and Human-Computer Interaction. Jun 2024