

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. Have legal rights to work in EU.

SKILLS

Software tools: Python, Jupyter Notebooks, C++, PyTorch, LLMs, Pandas, SQL, ROS2, Git, Docker, LaTeX.
Languages: English (C1), Swedish (B1), German (A2), Finnish (A1), Russian (native).

WORK EXPERIENCE

Aalto University Research Scientist

Espoo, Finland
Nov 2021 - Present

- Research in safe and robust reinforcement learning algorithms for robotics.
- Developed uncertainty-aware safe exploration for reinforcement learning 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).
- Developing natural language-constrained safe reinforcement learning using LLM and VLM experience labeling.

Huawei Research Center Machine Learning Engineer

Moscow, Russia
Sep 2019 - Oct 2021

- Research and development of deep learning algorithms for image enhancement and super-resolution.
- Developed an algorithm for demosaicing of underscreen camera photos that improved the quality by 25%.
- Developed a super-resolution algorithm based on Normalizing Flows that improved the quality of the underscreen camera photos by 13%.

Samsung R&D Institute Machine Learning Engineer

Moscow, Russia
Jun 2018 - Aug 2019

- Research and development of automation algorithms for cloud and mobile applications.
- Developed OpenStack system installation automation, accelerated system's deployment to new locations.
- Developed AI-based Mobile Testing Automation for Android using Reinforcement Learning, which accelerated new features testing by 50%.

EDUCATION

Aalto University

PhD in Electrical Engineering, *GPA: 4.52*, Courses: Deep Learning, Bayesian Statistics

Espoo, Finland
Jan 2022 - Present

Lomonosov Moscow State University

M.Sc in Applied Mathematics, *GPA: 4.05*, Courses: Control Engineering, Optimal Control

Moscow, Russia
Sep 2018 - May 2020

Lomonosov Moscow State University

B.Sc in Physics, *GPA: 4.51*, Courses: Calculus, Linear Algebra, Physics, C++

Moscow, Russia
Sep 2014 - May 2018

Certificates

- Generative AI with Large Language Models, AWS, Jul 2024.
- Databases and SQL for Data Science with Python, IBM, Dec 2024.

CONFERENCES AND WORKSHOPS

Teaching assistant at ProbAI

Lead TA on Normalizing Flows section of Nordic Probabilistic AI summer school.

Helsinki, Finland
Jun 2022

Teaching assistant on RL course

TA and lecturer on the Reinforcement Learning course.

Helsinki, Finland
Sep 2022 - Present

International Workshop of Intelligent Autonomous Learning Systems

Organized by the Intelligent Autonomous Systems lab from TU Darmstadt.

Kleinwalsertal, Austria
Aug 2023

Generative Modeling Summit

Organized by Yandex, it presented the latest technologies behind YaGPT.

Belgrade, Serbia
Sep 2023

ELLIS Robust Machine Learning Workshop

Workshop covered important topics of robustness of ML, LLMs and Human-Computer Interaction.

Helsinki, Finland
Jun 2024