Maksim Loginov

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Objective

PhD candidate in Reinforcement Learning and MLOps, researching probabilistic decision-making and industrial diagnostics using Dempster–Shafer theory. Seeking opportunities to develop intelligent and reliable multi-agent control systems.

Summary

Machine Learning and MLOps specialist with strong expertise in Reinforcement Learning and experience in developing LLM-based agent systems. Skilled in Python, C++, Docker, and Linux environments. Published author in AI-focused scientific journals. Combining research and engineering skills to design scalable, data-driven systems for decision automation and maintenance optimization.

Education

PhD (starting Sep 2025) — Systems Analysis and Reinforcement Learning, Voronezh State Technical University, Control Theory Faculty
MSc (Sep 2022 – Jan 2025) — Machine Learning, Voronezh Institute of High Technologies
Specialist (2011–2014) — Public Administration, RANEPA
Advanced Training (2012–2013) — Strategic Management, Plekhanov University
Specialist (2005–2010) — Project Management, Vladivostok State University of Economics and Service

Experience

MLOps/DevOps Engineer | Start-up (Analogue Turboscribe) | Dec 2024 – Jun 2025, Tbilisi, Georgia
- Developed LLM-based agents for automation and data extraction.
- Built MLOps workflows using Docker, Ubuntu, PostgreSQL, MongoDB.
- Automated dataset preparation and fine-tuning pipelines in Python.

Deputy Planning Manager | SMS Group GmbH | Mar 2017 – May 2023, Lipetsk, Russia
- Supervised outsourcing of CCM equipment for NLMK, developed analytical dashboards for KPI tracking.
- Introduced early digitalization initiatives improving resource allocation efficiency.

Publications

M.E. Loginov, Y.V. Bondarenko (2025) USE OF HIERARCHICAL MULTI-AGENT SYSTEMS WITH REINFORCEMENT FOR JOINT OPTIMIZATION OF TECHNICAL MAINTENANCE AND REPAIR OF THE PLANT'S EQUIPMENT
Loginov, M. (2025). Utilizing the Dempster–Shafer Theory for Technical Condition Diagnosis of a Continuous Casting Machine. Bulletin of Voronezh Institute of High Technologies, July 2025.

Selected Projects

- Hierarchical RL for Maintenance Scheduling — multi-agent optimization of repair cycles in metallurgical plants (Python, Gymnasium, PPO/A2C).
- Sensor Fusion with Dempster-Shafer Theory - https://github.com/LogMaks/damshaf
- Lunar Lander 3D (PyBullet) — RL environment with six-thruster model, fuel tracking, and reward visualization.
- MLOps Sandbox (Beelink MINI S12) — lightweight infrastructure for experiment tracking and CI pipelines.

Skills & Tools

Python, C++, R, SQL, TensorFlow, PyTorch, Docker, Linux, Git, PostgreSQL, MongoDB, MLOps, Reinforcement Learning, Statistics, Data Visualization.

Languages

Russian (Native), English (Fluent, Technical), German (B1 Intermediate).