Olga Sorokoletova

Artificial Intelligence Research Engineer

PERSONAL INFORMATION

Location – Rome, RM 00199 (open to relocation)
GitHub – https://github.com/olga-sorokoletova
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EDUCATION

Master of Science in Artificial Intelligence and Robotics

University of Rome La Sapienza (2020 - 2022), Rome, Italy

- ❖ **Faculty**: Information Engineering, Computer Science and Statistics
- ❖ **Elective in:** Artificial Intelligence
- ❖ **Thesis Topic:** "Enhancing Robot Reliability for Health-Care Facilities by means of Human-Aware Navigation PlanninFinal Grade: 4.7/5.0Final Grade: 4.7/5.0g"
- ❖ **Final Grade:** 110/110

Bachelor of Science in Applied Mathematics and Computer Science

Lomonosov Moscow State University (2015 - 2019), Moscow, Russia

- ❖ **Faculty**: Computational Mathematics and Cybernetics
- ❖ **Lab:** Mathematical Statistics and Probabilistic Theory
- ❖ **Thesis Topic:** "Deep Learning for Cryptocurrency Time Series Forecasting"
- ❖ **Final Grade:** 4.7/5.0

PROFESSIONAL EXPERIENCE

Risk Portfolio Analyst

OTP Bank (2019 - 2020, 1 full year), Moscow, Russia

Experience:

- ❖ Automated the calculations of NPV using Python, resulting in increased accuracy, efficiency, and scalability.

- ❖ Performed statistical analysis on COVID-19 affected client segments to optimize loan issuance with minimal risk exposure, while maximizing profitability for the bank.

- ❖ Analyzing complex creditworthiness data, developed a DL-based scoring model that improved accuracy, leading to a more reliable lending process.

TECHNICAL SKILLS

Programming languages	Python	R
	C/C++	Assembly x86
	MATLAB	HTML
	PDDL	SQL
	SWI-Prolog	SAS

Frameworks	Python for Data Science	Tensorflow, Keras, PyTorch, Scikit-Learn, Pandas, NumPy, Matplotlib, Apache Spark, SciPy, Fast.ai, TorchText, Hugging Face, NLTK, PIL, OpenCV

Development tools	ROS	ROS Navigation Stack, ROS Stage, RViz
	NAOqi	
	OMPL	
	OpenSim	
	Jupyter	Git
	Anaconda	Oracle MySQL
	Visual Studio	SAS
	Docker	Android Studio

LANGUAGES

- ❖ Russian ●●●●●● Native speaker
- ❖ English ●●●●●○ C1/C2 [IELTS Certificate with score 7.0 in 2019]
- ❖ Italian ●●●○○○○ B1 [Currently studying]

ACKNOWLEDGMENTS

- ❖ On-going preparation of publication (2023)
  Enhancing Robot Reliability for Health-Care Facilities by means of
  Human-Aware Navigation Planning

- ❖ Completed: <u>ROS2-based Motion Planning</u> series of courses (2022)

Distributed Control	Model Predictive Control
Dynamic Window Approach	Introduction to ROS2
Artificial Potential Field	Navigation Stack in ROS2
Timed Elastic Band	

- ❖ Completed: <u>Continual Learning</u> course (2022)
  Continual Learning

- ❖ Participated: <u>Neurorehack Hackathon</u> (2021)
  Summer School and hands-on Hackathon in NeuroRehabilitation Engineering

- ❖ Completed: <u>MIT Open Courseware (OCW)</u> course (2020)
  Introduction to Algorithms

- ❖ Published: Journal article (2019)
  O. E. Sorokoletova, T. V. Zakharova,
  <u>Random Sampling Method for Cryptocurrency Market Time Series Forecasting</u>,
  Sistemy i Sredstva Inform., 2019, Volume 29, Issue 4, 65-72

- ❖ Completed: <u>Coursera</u> self-educator courses (2019)
  Programming in Python
  Python for Data Analysis
  Introduction to Machine Learning
  Introduction to Blockchain Technology

- ❖ Completed: <u>Deep Learning School</u> course (2019)
  Deep Learning

- ❖ Completed: Collaborative MSU and Deutsche Bank course (2018)
  Mathematical Models in Investment Banks

- ❖ Participated: NIPS Learning to Run Competition (2017)
  Reinforcement Learning Environments with Musculoskeletal Models

SOFT SKILLS

- ❖ Communication and teamwork abilities
- ❖ Proactiveness/Initiative
- ❖ Hardworking/Engagement
- ❖ Structured thinking, Analytical and Problem-Solving skills, Decision-Making
- ❖ Curiosity/Continuous Self-Improvement