



# Olga Sorokoletova

Artificial Intelligence Research Engineer

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## PERSONAL INFORMATION

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Location – Rome, RM 00199 (open to relocation)

GitHub – <https://github.com/olga-sorokoletova>

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Phone – +39 349 656-69-47

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## EDUCATION

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### 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 Planning"
- ❖ 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

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## PROFESSIONAL EXPERIENCE

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### 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.

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## TECHNICAL SKILLS

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Programming  
languages

Python  
C/C++  
MATLAB  
PDDL

R  
Assembly x86  
HTML  
SQL

SWI-Prolog  
SAS

Frameworks

Python for  
Machine Learning

Tensorflow, PyTorch,  
Fastai, Scikit-Learn, Pandas, NumPy,  
Matplotlib, Apache Spark, SciPy,  
Hugging Face, NLTK, PIL, OpenCV

ROS  
NAOqi  
OMPL  
OpenSim

ROS Navigation Stack, ROS Stage, RViz

Development  
tools

Jupyter  
Anaconda  
Visual Studio  
Docker

Git  
Oracle MySQL  
SAS  
Android Studio

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## LANGUAGES

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

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## ACKNOWLEDGMENTS

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- ❖ On-going preparation of publication (2023)  
Enhancing Robot Reliability for Health-Care Facilities by means of Human-Aware Navigation Planning
- ❖ Completed: ROS2-based Motion Planning 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: Continual Learning course (2022)  
Continual Learning
- ❖ Participated: Neurorehack Hackathon (2021)  
Summer School and hands-on Hackathon in NeuroRehabilitation Engineering
- ❖ Completed: MIT Open Courseware (OCW) course (2020)  
Introduction to Algorithms
- ❖ Published: Journal article (2019)  
O. E. Sorokoletova, T. V. Zakharova,  
Random Sampling Method for Cryptocurrency Market Time Series Forecasting,  
Sistemy i Sredstva Inform., 2019, Volume 29, Issue 4, 65-72
- ❖ Completed: Coursera self-educator courses (2019)  
Programming in Python  
Python for Data Analysis  
Introduction to Machine Learning  
Introduction to Blockchain Technology
- ❖ Completed: Deep Learning School 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

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## SOFT SKILLS

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

Last updated on May 26, 2023