Alexey RYABYKIN

PERSONAL DATA

DATE OF BIRTH:	11 September 2000
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EDUCATION

AUGUST 2022 – TODAY	Master of Applied Mathematics and Informatics, Data Science, Higher School of Economics, Moscow
AUGUST 2022 – TODAY	Master of Informatics and Computer Engineering, Moscow Institute Physics and Technologies, Moscow
JULY 2022	Bachelor of Applied Mathematics, Moscow Aviation Institute, Moscow
	Thesis: "Quantifying Public Opinion and Consumer Preferences by Semantic Analysis Methods Algorithm." | Advisor: Prof. Egor SUKHOV
	GPA: 4.67/5.0 | Detailed List of Exams

PUBLICATIONS

ARTICLE	Ryabykin A., Sukhov. E. Neural methods in the sentiment analysis task. "DSPA: digital signal processing application surveys (No2-2022)". P. 41. 2022. | Paper
THESIS	Ryabykin A., Sukhov. E. The real-time weapon detection by neural networks for security and intelligence services. "Gagarin Reading 2022". P. 464. 2022. | Paper

TRAINING

OCTOBER-NOVEMBER 2022	RuCode Festival 6.0 (additional education and prize-winner)
AUGUST 2022	Summer school on ML in Bioinformatics
FEBRUARY-JULY 2022	Deep Learning School (1st degree diploma)
MAY 2022	School of Mathematical Modeling (winner in predictive analytics case)
MARCH-APRIL 2022	RuCode Festival 5.0 (additional education and top25%)

ACHIEVMENTS

OCTOBER 2022	HSE The scholarship in the nomination "The best idea of an entrepreneurial project" (winner)	| Certificate
MARCH 2022	Changellenge CUP IT 2022 Data Science (high quality award)	| Certificate
MARCH-MAY 2021	CROC Case Laboratory (task distribution case)	| Certificate

Projects

1. **Style transfer telegram bot** | Link

   Asynchronized telegram with simple database to neural photo stylization

   STACK: `PY aiogram` `PY sqlite` `PY torch` `PY torchvision` `GAN`

2. **Sentiment analysis web application** | Link

   Implementation of the ensembled neural classification models and BERTopic to the web site

   STACK: `PY Flask` `html Bootstrap` `PY huggingface` `PY torchtext` `Topic Modeling`

3. **Real-Time weapon detection telegram bot** | Link

   Asynchronized telegram bot connected to the camera for weapon detection

   STACK: `PY TelegramBotAPI` `PY torch` `PY opencv` `Transfer Learning`

4. **Predictive analysis** | Link

   Synthetic data generation to increase the quality of failure predictions in mechanical systems

   STACK: `PY torch` `Time Series` `Anomaly Detection` `PY pyfmi` `OpenModelica`

Languages

ENGLISH:	Fluent
RUSSIAN:	Mothertongue

Relevant Courses

AUGUST 2021	Basics of C++ development: Yellow Belt (99.93%)	Certificate
JULY 2021	Basics of C++ development: White Belt (100%)	Certificate
JULY 2021	Machine Learning: Language Processing (100%)	Certificate
MAY 2021	Supervised Learning (96.75%)	Certificate
NOVEMBER 2021	Data Introduction (93.16%)	Certificate
NOVEMBER 2021	Math and Python for Data Science (100%)	Certificate
OCTOBER 2021	SQL for Data Science (92.06%)	Certificate
OCTOBER 2022	Neural networks and computer vision (92%)	Certificate

Interests and Activities

Programming, Open-Source, ML
Genetics, Psychoanalysis, Neurobiology
Gym, Running

Bachelor of Applied Mathematics

Grades

Exam	Grade	Credit Hrs
DataBases	5	5
Linear Algebra and Analytic Geometry	5	7
Mathematical Analysis	5	16
Mathematical Logic	4	8
Differential Equations	5	5
Physics	4	8
Probability Theory and Mathematical Statistics	4	7
Optimization Methods	5	4
Numerical Methods	5	6
Theoretical mechanics	4	6
Computer Math	4	4
History	5	4
Mathematical Methods in Economics	4	4
Machine Learning with Python	5	5
Control Theory	5	4
Object-Oriented Modeling of Dynamic Processes	5	5
Random Processes	4	4
Functional Analysis	4	6
Educational Practices	5	15
Final Thesis	5	9
Total		132
GPA		4.67/5.0