

Alexey RYABYKIN

PERSONAL DATA

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GITHUB: <https://github.com/addicted-by>



EDUCATION

AUGUST 2022 – TODAY Master of Applied Mathematics and Informatics, Data Science, Higher School of Economics, 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](#)

COMPUTER SKILLS

INTERMEDIATE KNOWLEDGE:

[PANDAS](#) [TORCHTEXT](#) [TORCHVISION](#) [KERAS](#) [PYTORCH](#) [SCIKIT-LEARN](#)
[NLP](#) [CV](#) [TENSORFLOW](#) [DATA VISUALIZATION](#) [DATA MINING](#) [LATEX](#)

BASIC KNOWLEDGE:

[C++](#) [HTML](#) [MLOPS](#) [SQL](#) [XGBOOST](#) [OPTUNA](#) [DOCKER](#) [LINUX](#) [GIT](#) [FLASK](#)
[CSS](#) [UNITY](#) [SELENIUM](#) [GOOGLE CLOUD AI PLATFORM](#)

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

FEBRUARY-JULY 2022 Deep Learning School
MAY 2022 School of Mathematical Modeling (winner in predictive analytics in aviation task)
MARCH-APRIL 2022 RuCode Festival 5.0 (additional education and top25%)

PROJECTS

1. STYLE TRANSFER TELEGRAM BOT [| Link](#)
Asynchronized telegram with simple database to neural photo stylization
STACK:  aiogram  sqlite  torch  torchvision GAN
2. SENTIMENT ANALYSIS WEB APPLICATION [| Link](#)
Implementation of the ensembled neural classification models and BERTopic to the web site
STACK:  Flask  BOOTSTRAP  huggingface  torchtext TOPIC MODELING
3. REAL-TIME WEAPON DETECTION TELEGRAM BOT [| Link](#)
Asynchronized telegram with simple database to neural photo stylization
STACK:  TelegramBotAPI  torch  OPENCV TRANSFER LEARNING
4. PREDICTIVE ANALYSIS [| Link](#)
Synthetic data generation to increase the quality of failure predictions in a mechanical systems
STACK:  torch TIME SERIES ANOMALY DETECTION  pyfmi OPENMODELICA

ACHIEVEMENTS

- | | | |
|----------------|--|-------------------------------|
| MARCH 2022 | Changellenge CUP IT 2022 Data Science (high quality award) | Certificate |
| MARCH-MAY 2021 | CROC Case Laboratory (task distribution case) | Certificate |

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 |

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 mechanincs	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