Sergey Kushneryuk

Latest version of my CV can always be found here

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Education

2019 – present **Bachelor Degree in Applied Mathematics and Computer Science**, *Moscow Institute of Physics and Technology*, GPA: 4.79/5.0.

- Department of Image Recognition and Text Processing founded by ABBYY: DL, CV, NLP, C++
- Advanced DS-program: ML & DL, RL, NLP, CV, Applied Mathematical Statistics, ANOVA, AB-testing, Time Series and Stochastic Processes, Bayesian Statistics, Bayesian Neural Networks
- Math courses: Discrete Analysis, Probability Theory, Calculus, Linear Algebra, Group Theory
- Programming courses: Algorithms & Data structures, C++, Python, Computer Architecture & Operating Systems, Concurrency, Databases, Theory of Fault-tolerant Distributed Systems

2021 – present **Machine learning developer academic program**, *Yandex School of Data Analysis*.

- Classic ML, RL, CV, NLP, C++, Go, Algorithms & Data Structures

Working experience

summer 2022 **ML Intern**, Meteum.AI - Weather Experiments Team, Python, TensorFlow, SQL.

- Conducting experiments to improve weather short-term prediction models for precipitation (nowcasting)
- Analysis of weather forecasting for business tasks

summer 2021 **SWE Intern**, Yandex Weather Back-end Team, C++, Python, Go, Google Protobuf.

- Developed 4 new weather scenarios for voice assistant Alice and set up experiments for their AB-testing

2020 – 2021 **Competitive Programming Tutor**, *SPGuide*.

- Taught school students from 6 to 11 grade basic Algorithms & Data structures, C++, Python

Software skills

ML/DS Python: PyTorch (+Lightning), Transformers, Catboost/XGBoost/LightGBM, Sklearn, NumPy, Pandas, SciPy, Statsmodels, tsfresh, mediapipe; Pytest; R

Other C++, Go, C, Bash

Tools Git, Unix, Build systems (CMake), LaTeX, Jira/Confluence/Bitbucket

Other skills

- **Basic and advanced ML/DS models knowledge** regularly used in practical study tasks
- **Strong algorithm and data structures knowledge** obtained at university courses and enhanced by participating in programming contests and working as SWE
- **Software engineer experience and Teamwork skills** obtained by working on study and real projects and taking part in team programming competitions

Study projects

2022 **Image Captioning Model**, Task on Deep Learning Course on IRTP MIPT.
Neural network for image captioning based on inception_v3, LSTM and Attention

2021 **LOLCODE interpreter**, Entrance task for Compilers coursee at MIPT.
Mini-interpreter of esoteric programming language LOLCODE

2020 **Type Trainer**, Project for Python Course and Technology of Programming Course at MIPT.
Simple type-training game

2020 **Mini-library for finite automata**, Project for Formal Languages Course at MIPT.
NFA to DFA, complete DFA and minimal DFA conversions

2020 **Encryptor and Decryptor of cyphers**, Project for Python Course at MIPT.
Encoder and decoder of Caesar, Vigenere and Vernam cyphers, breaker of Caesar cypher using existing texts

Achievements

2020 **1/4 ICPC**, place 48/277.

2019 **MIPT Olympiad of School Students "Phystech" in Mathematics**, Diploma of First degree.

2019 **All-Russian Team Programming Contest**, place 70/252.

2018 **Regional stage of All-Russian School Olympiad in Mathematics**, Diploma of First degree.

Languages

Russian Native Speaker

English B2-C1 Upper-Intermediate