SEVA KONYAKHIN

Machine Learning Engineer/Researcher — Kaggle Competitions Expert

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EDUCATION

National Research ITMO University *September 2018 - Present*
Bachelor of Computer Science & Engineering GPA: 4.5/5.0, top 8/180 in academic ranking

Exchange student at Aalto University School of Science *Spring 2021*
Master's level courses in Probability Theory, Bayesian Machine Learning, Parallel Computers, Theory of Computation

Computer Science Center (JetBrains, Yandex School of Data Analysis) *September 2019 - Present*
Three-year Degree Program in Data Science and Software Engineering
Courses: *Asymptotic Analysis & Probability Theory, Mathematical Statistics, Algorithms & Data Structures, Advanced Python, Machine Learning, Deep Learning (Advanced Track), Data Mining*

Lyceum Physical-Technical High School, Russian Academy of Sciences *September 2015 - June 2018*
High school degree (In-depth study of Mathematics, Physics, Computer Science, English) GPA: 4.5/5.0
• Research Project at St. Petersburg Polytechnic University on a unique robotic ground-walking platform, **patented** 2017-2018

SKILLS

Programming	Python, C++, Java, PyTorch, TensorFlow, NumPy, Pandas, OpenCV, SciPy
Technologies	OOP, SQL, Git, Bash, Linux, MapReduce, Docker, LaTeX
Languages	English (Fluent), Russian (Native), German (Beginner)

EXPERIENCE

Yandex August 2020 - January 2021
Machine Learning Engineering Intern *Remote / Moscow, Russia*

· Built and trained a Transformer-based model for matching pairs among >**150M** items, increased **PR AUC** score from **69%** to **92%**.
· Worked on model architecture (separate doc & query modules), quantization, deployment. **Natural Language Processing**

JetBrains Research, Deep Learning Group February 2020 - May 2020
Research Intern *St. Petersburg, Russia*

· Researched and implemented novel methods for Visual Object Tracking based on Siamese Deep networks.

3D4Medical, Elseveir July 2019 - January 2020
Machine Learning Engineer at RnD Department *St. Petersburg, Russia*

· Was responsible for the entire ML cycle as an ***only*** ML Engineer, **Computer Vision** and **Medical Imaging** tasks.
· Developed deep-learning-based models for classification, segmentation, detection tasks with ***novel*** approaches.

PROJECTS

EfficientDet Implementation (repo, 19 stars, 4 forks) *April 2020*
Implemented object detection model EfficientDet that reproduces results from the paper, ***first*** PyTorch version in the community

Handwritten Digits Recognition iOS app (repo, 22 stars, 3 forks) *July 2019*
Built a lightweight CNN for handwritten digits recognition and ported it to iOS devices using TensorFlow Lite

ACHIEVEMENTS

Kaggle Competitions Expert, top 1% worldwide *May 2020 - Present*

- **Silver** Medal @ Prostate cANcer graDe Assessment Challenge, ***13***/1010, Top ***2%***, repo
- Bronze Medal @ Abstraction and Reasoning Challenge, ***72***/914, Top ***8%***

Machine Learning Hackathon, Prize Winner *March 2020*
Prize winner in 'Voice Processing' track with a real-time English Speech accent changer project

EVENTS

Eastern European Machine Learning Summer School by DeepMind *July 2020*
Selected to attend EEML 2020 and was chosen to present my submitted project as a poster *Virtual / Krakow, Poland*

JetBrains Research Machine Learning Seminar *April 2020*
Gave a talk reviewing latest papers on state-of-the-art real-time object detection

Joint Advanced Student School 2019 (TUM, JetBrains, Zeiss, Microsoft) *March 2019*
Worked in an international team developing a medical iOS app for Zeiss in a short-time period *Munich, Germany*

Winter mini-degree program in STEM (JetBrains, MIT) *January 2019*
Built a shortest-path search and obstacles-handling algorithm for the Duckietown self-driving bot