

NIKITA BARINOV

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EDUCATION

- Moscow Institute of Physics and Technology** Moscow, Russia
Student of Applied Mathematics, Computer Science and Economy Sep 2020 - Present
- Department of Data Analysis** Moscow, Russia
MIPT and Yandex School of Data Analysis Sep 2022 - Present
- Lyceum №2 of the city of Rybinsk** Rybinsk, Russia
Physics and Mathematics class Sep 2009 - June 2020

EXPERIENCE

- Intern ML-engineer at Yandex** Jun 2023 - Nov 2023

Java RecSys Feature Engineering Classic ML SQL Python

 - Improving the Quality of Recommendations at Yandex Music with Transformer's embeddings for next track prediction.
- Data Scientist at Sber AI** Feb 2024 - Aug 2024

Deep Learning Computer Vision Generative models Semantic Segmentation Object Detection Huggingface Linux

 - Instruct Image Editing. Collecting data with building pipelines using LLMs and generative models such [Stable Diffusion](#), [Grounded-SAM](#), [LLAMA-3](#) and [LLaVA-NeXT](#). Data storage organization with [Webdataset](#), boost inference with [OneDiff](#), distributed training and inference with [Accelerate](#).
- ML-engineer at Tinkoff AI Center** Sep 2024 - Present

Deep Learning RecSys SQL Python Docker Linux Classic ML

 - Training Transformer-like models for sequential recommendations, using it in candidate generation process.
 - Updating current recommendation pipelines.

PROJECTS

- The effect of distilling models in training on distilled data** Sep 2023 - Dec 2023

Python Computer Vision Latex

Written a **paper** about influence of knowledge distillation while training on distilled dataset. Presented it in the [MMPR-2023](#) conference.
- Generative Data Augmentation** Feb 2023 - Present

Python Computer Vision Latex Diffusion Models LLMs

A paper about generative data augmentation.

COURSES

- Natural Language Processing** Moscow, Russia
Yandex School of Data Analysis Sep 2023 - Dec 2023

Python DL Linear Algebra Probability theory Mathematical statistics Linux

 - Implemented Bayesian models (Naive, Kneser-Ney, etc.) and applied statistics to make predictions.
 - Getting to know the modern models such Transformer, GPT.
- Machine learning, part 2** Moscow, Russia
Yandex School of Data Analysis Feb 2023 - May 2023

Python Deep learning CV NLP Time Series Transfer learning Linear Algebra Probability theory Mathematical statistics

 - Implemented different DL models, such as ResNet18, ResNet50
 - Solved problem of «Image Captioning» (CV + NLP)

SKILLS

- Languages:** C, C++, Java, Python, Latex, SQL
- Technologies:** Git, Linux
- Knowledge:** Algorithms & Data Structures, Classic ML, DL, Computer Vision, Probability Theory, Applied Statistics
- Theoretical CS:** Programming Languages Realization Theory, Algorithms and Calculation Models, Databases, Fundamental Algorithms, Formal Systems Theory, Discrete Optimization Theory
- Mathematics:** Advanced Calculus, Harmonical Analysis, Multiple Integrals, Field Theory, Linear algebra, Higher Algebra, Analytical geometry, Differential equations, Matrix calculations