

# NIKITA BARINOV

Moscow, Russia

+7 (905) 133-08-50 [barinov.na@phystech.edu](mailto:barinov.na@phystech.edu)

## 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

## PROJECTS

- House Price Predictions** Feb 2023 - March 2023  
Python Classic ML Feature Engineering Data Visualization  
Solved competition on **Kaggle** about *House Price Predictions* using classic ML models such as **Gradient boosting** and **Random Forest**.
- Distillation of knowledge and data** Feb 2023 - Present  
Python Computer Vision Latex  
Written a **paper** about the comparison of two approaches: **distillation** of data and models separately and together. Implemented algorithms of distillation of models and data.
- Image Captioning** March 2023 - April 2023  
Python Computer Vision Natural Language Processing Transfer Learning  
Implemented my own solution of a popular deep learning task of «Image Captioning» on **PyTorch** in **Python**. Used different augmentation techniques and text preprocessing.

## COURSES

- Machine learning, part 1** Moscow, Russia  
*Yandex School of Data Analysis* Sep 2022 - Dec 2022  
Python Classic ML Linear Algebra Probability theory Mathematical statistics Linux
  - Implemented Classic ML models, such as Gradient boosting, Decision tree and Random forest
  - Used Bayesian models and applied statistics to make predictions
- Methods of modern applied statistics** Moscow, Russia  
*Department of Data Analysis* Feb 2023 - Present  
Probability theory Calculus Correlation analysis Python
- Machine learning, part 2** Moscow, Russia  
*Yandex School of Data Analysis* Feb 2023 - Present  
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++, Python, Latex
- Technologies:** SQL, Git, Linux
- Knowledge:** Algorithms, Data Structures, Classic ML, DL, CV, Probability theory, Theoretical and Applied Statistics
- Theoretical CS:** Programming Languages Realization Theory, Algorithms 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

## ABOUT ME

I am a third-year student at MIPT with an overall GPA of 8.07 and interested in machine learning and data analysis. Additionally, I have a background in art, having completed courses at arts school. My experience in both technical and creative fields has allowed me to develop a unique perspective and approach to problem-solving. I have worked on various machine learning projects and have strong analytical skills, with experience in data manipulation and visualization. I am a quick learner, a team player, and am always eager to expand my knowledge and skills in this field.