



# Andrey Lukyanov

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## Languages

- Russian ● ● ● ● ●
- English ● ● ● ● ●

## Skills

- Python ● ● ● ● ●
  - scikit-learn, matplotlib
  - scipy, numpy, pandas
  - PyTorch, Keras
  - jupyter notebook
  - PyCharm
- Machine Learning ● ● ● ● ●
  - supervised learning
  - regressions
  - CNN, RNN
  - data visualization
- C# ● ● ● ● ●
- C++ ● ● ● ● ●
- R ● ● ● ● ●
  - ggplot
  - tidyverse
- Mathematics ● ● ● ● ●
  - probability and statistics
  - calculus and linear algebra
  - optimization and game theory
  - Diff. equations, PDE, SDE
  - discrete math, combinatorics

## Working and Internship Experience

- 07.2021 – 08.2021 **C# developer** SKB Kontur  
Transfer a few projects on new orchestration systems
- 02.2021 – 06.2021 **Researcher** Laboratory of Applied Digital Technologies of IMC  
Work with CT scans and train algorithm to get area of interest(range of CT-scans) with high risk of abdominal aorta aneurysm
- 07.2020 – 08.2020 **Researcher** International Mathematical Center(IMC)  
Work with time series and train LSTM to predict future load on a computational cluster.

## Education

### Study

- 2019 – currently **Bachelor Studies** Novosibirsk State University  
Engineering School of Mechanics and Mathematics Faculty.  
Chair of Probability and Statistics.  
GPA - 4.9
- 2021 – currently **Student** Computer Science Center  
Data Analysis department.

### Online Courses

- 2021 **Supervised Learning** MIPT  
linear models, regression, decision trees, models composition
- 2021 **Game Theory** Stanford University  
basics of coalition game, equilibrium games, bayesian games and its application in Computer Science and Economics
- 2021 **Introduction to Data** Novosibirsk State University, 2Gis  
basics of Probability Theory, Mathematical statistics, type of data, R and SPSS introduction
- 2021 **Investigation of Interactions** Novosibirsk State University, 2Gis  
Testing Hypothesis, Linear Regression, Correlation
- 2021 **Comparison and Creation of Groups** Novosibirsk State University, 2Gis  
Cluster analysis, K-means, 1-sample, 2-sample, n-sample criteria
- 2021 **Trends and Classifications** Novosibirsk State University, 2Gis  
Time series, STL-decomposition, ARMA, ARIMA, adaptive models, factor analysis, decision tree, binary and logistic regression
- 2021 **Mathematics and Python** MIPT  
Numpy, pandas, scipy, intro to probability, statistics, linear algebra and optimization.

### Offline courses

- 2021 **Forum on Mathematics and AI** MIPT  
5-day forum with lectures about AI
- 2021 **Bayesian statistics introduction** Spring Probability School in NSU  
Bayesian statistics, Markov Chain Monte-Carlo, application of Bayesian approach in finance
- 2021 **C# design** SKB Kontur  
Object-oriented programming introduction, Generics, DDD, Fluent API, Patterns, DIP and Ninject library, resource management

## Hackathons

- 2021 **MIPT Forum Hackathon** MIPT  
Classifying quiz questions if they written by professionals or not
- 2021 **Samruk Hackathon** Astana  
Recognize protective equipment on industrial workers

# Olympiads

2021

**International Mathematics Competition**  
Second Prize

International Olympiad

## Extra-Curricular Activities

Music

Playing the piano

Education

Supervise first-year students in mathematical logic and combinatorics