

# Sergei Bogdanov

MACHINE LEARNING ENGINEER + PYTHON / GO DEVELOPER. RIGHT TECHNOLOGY FOR EACH PROJECT TO MEET BUSINESS NEEDS.

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## Experience

### Tinkoff

Machine Learning Engineer (CV + NLP) + Go Developer

10.2020 - 09.2022

- Improved Face Identification key metric **from 0.09 to 0.99** on Masked Faces by mining new data, improving data quality and training procedure.
- Automatically gathered dataset of **200k images** with 99.9% labeling accuracy.
- Deployed 3 ML models** and implemented several gRPC endpoints.
- Doubled detector's speed by leveraging **Model Compression techniques**: Pruning and Quantization.
- Mentored intern** Machine Learning Engineer at Tinkoff. **Mentee was hired** and received positive feedback.
- Interviewed 4 candidates** for the role of Machine Learning Intern.
- Decreased Face Recognition RAM usage (now **3 times smaller**) without quality decrease.
- Gave 5 public **talks with over 500 attendees**.
- NLP**: Solved Classification and Metric Learning problems.
- CV**: Solved Classification, Detection, Recognition, Model Compression, Segmentation, Image Reconstruction, Best Frame Selection problems.

### AgBlox

Machine Learning Engineer (ML + NLP) + Python developer

08.2021 - 08.2022

- Implemented **Question Answering System** capable of handling **30 scenarios** & integrated it with knowledge db.
- Developed **Unsupervised ML algorithm & infrastructure** for Absolute Daily Searches Estimation for the given search query.
- Reduced variance by a factor of 3** and add **confidence interval** for the prediction by using Bayesian ML.
- Deployed multiple projects on **AWS** using **EC2, lambda, RDS, S3, API Gateway, VPC, ECS**.

### JetBrains

Machine Learning Researcher (NLP)

07.2020 - 09.2020

- Proposed model for **Method name generation** task which is comparable to **SOTA**.
- Developed model for Code-SearchNet task: **Top-20% out of all competition participants**.

## Education

### Ecole Polytechnique

Paris, France

M.S. in Artificial Intelligence And Robotics

09.2022 - 04.2023

- Admitted to the 2nd year directly

### Yandex School of Data Analysis

Remote

M.S. in Artificial Intelligence And Robotics

09.2020 - 08.2022

- Courses**: Computer Vision (2d & 3d), Natural Language Processing, ML for Audio and Speech, Rec Sys, RL, Python, GO;

GPA: 5.00/5.00

### Moscow Institute of Physics and Technology

Moscow, Russia

B.S. in Information Technology

09.2018 - 08.2022

- Thesis**: Reliable and Efficient Face Identification during COVID-19,

GPA: 4.77/5.00

## Skills

**Programming** Python, Golang, Computer Vision, NLP, Recommender Systems, Machine Learning, SQL, NoSQL, AWS, Docker

## Achievements

- 2022 **4th out 150, More Tech Hackathon 2022** - Rec Sys for news for businesses with trend and insight extraction
- 2022 **Absolute winner, Agrocode Hack 2022** - Real-time aiming the harvester's dispenser, [post link](#)
- 2018 **Top-3%, Double Awardee**, ITMO Informatics Olympiad
- 2018 **Absolute winner**, BMSTU Informatics Olympiad

## Activities & Leadership

- Vice President** of the University's [English speaking club](#) with online meetings with **30+ participants and 1200+ members**.
- Doubled unique participants and retention numbers** after becoming Vice President of English speaking club.
- Member of several **Toastmasters public speaking** clubs in Paris.
- Ex-member of **Public Speaking and Improvisation** University club.