Sergei Bogdanov

+33 6 49985728 | improvesergey@gmail.com | linkedin | github

EDUCATION

École Polytechnique, admitted to the 2nd year directly

Master's of Artificial Intelligence and Advanced Visual Computing

Sep.2022 - Dec.2023

Moscow Institute of Physics and Technology, QS EECA top 10

GPA: 4.77/5

Bachelor of Applied Mathematics and Computer Science, Minor in Machine Learning

Sep. 2018 - Aug 2022

Thesis: Reliable and Efficient Face Identification during COVID-19

Yandex School of Data Analysis

GPA: 5/5

Computer Vision, 3d Computer Vision, Natural Language Processing,

Sep. 2020 - Aug 2022

ML for Audio and Speech, Recommendation Systems, Reinforcement Learning, Python, GO

Work experience

Machine Learning Researcher (CV + NLP)

Oct. 2020 – September 2022

Tinkoff, Face biometric department

- NLP: Solved Classification and Metric Learning problems.
 - CV: Solved Classification, Regression, Object Detection, Object Recognition, Model Compression, Segmentation, Image Reconstruction (AE, VAE), Best Frame Selection problems.
 - Increased Face Detection MAP from 0.68 to 0.82 on Masked Faces.
 - Decreased Face Recognition RAM usage (now 3 times smaller) without quality decrease.
 - Increased Face Identification TPR from 0.09 to 0.99 with FPR=1e-3 on Masked Faces.
 - Increased Face Identification TPR from 0.94 to 0.96 with FPR=1e-7 on company's private dataset.

Machine Learning Engineer (ML + NLP)

Aug. 2021 – Feb. 2022, May 2022 – August 2022

AgBlox, Silicon Valley startup, remote

- Developed Question Answering System capable of handling 30 scenarios & integrated it with knowledge db.
- Developed ML algorithm & infrastructure for Absolute Daily Searches Estimation for the given topic.
- Used Bayesian ML to reduce variance by a factor of 3 and add confidence interval for the prediction.
- In charge of Design, BackEnd, ML & DevOps.
- Deployed projects on AWS and developed APIs using EC2, lambda, RDS, S3, API Gateway, VPC, ECS.

Python + Go Developer

Dec. 2021 – May 2022

Tinkoff, Face biometric department

- Developed quality assurance concurrent automatic tests of our products for dev & prod environments.
- Responsible for gRPC API expansion and Machine Learning models deployment.
- Stack: Go, Python, Docker, Kubernetes, Redis, PostgreSQL, S3.

Machine Learning Researcher (NLP, Natural Language Processing)

Jul. 2020 – Sep. 2020

Jetbrains, IntelliJ

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

OLYMPIADS

- BMSTU Informatics Olympiad Absolute winner.
- ITMO Informatics Olympiad Double Awardee. Top-3%
- Moscow State University Math Olympiad Awardee. Top-5%

ACTIVITIES AND LEADERSHIP

1st place at Agrocode Hack 2022 as a team of 3 people. Surpassing teams with up to 5 members.

4st place out of 150 at More Tech Hackathon 2022 as a team of 3 people. Surpassing teams with up to 5 members.

Vice President of the University's English speaking club.

Mentor intern Machine Learning Engineer at Tinkoff. The topic is model compression.

Gave a talk about my University thesis.

Recorded a lecture and a seminar about Computer Vision classification architectures and Neural Architecture Search.