Sergei Bogdanov

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Personal Profile

Machine Learning Engineer + Python / GO developer. Right technology for each project to meet business needs.

Work Experience

Tinkoff
Remote

Machine Learning Engineer (CV + NLP) + Go Developer   *Oct 2020 - Sept 2022*

- Increased 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 using **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
Los Angeles, USA, Remote

Machine Learning Engineer (ML + NLP) + Python developer   *Aug 2021 - Aug 2022*

- Developed **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
Remote

Machine Learning Researcher (NLP)   *Jul 2020 - Sept 2020*

- 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**.

Education

Ecole Polytechnique
Paris, France

M.S. in Artificial Intelligence And Robotics   *Sept 2022 - Apr 2023*

- Admitted to the 2nd year directly
- **Courses:** Computer Vision, NLP, RL, Graphics, Deep Learning

Yandex School of Data Analysis
Remote

M.S. in Artificial Intelligence And Robotics   *Sept 2020 - Aug 2022*

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

Moscow Institute of Physics and Technology
Moscow, Russia

B.S. in Information Technology   *Sept 2018 - Aug 2022*

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

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	**Absolute winner,** Moscow State University Math Olympiad
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.