Sergei Bogdanov

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Work Experience

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

- Increased Face Detection key metric **from 0.68 to 0.82** on Masked Faces.
- Decreased Face Recognition RAM usage (now **3 times smaller**) without quality decrease.
- Increased Face Identification key metric **from 0.09 to 0.99** on Masked Faces.
- Increased Face Identification key metric **from 0.94 to 0.96** on company's private dataset.
- Automatically gathered dataset of **200k images** with 99.9% labeling accuracy
- Developed 12 quality assurance test pipelines for dev & prod environments.
- **Deployed 3 ML models** and implemented several gRPC endpoints.
- **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 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   *Moscow, Russia*
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   *Moscow, Russia*
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	*Remote*
2022	**Absolute winner, Agrocode Hack 2022** - real-time aiming the harvester's dispenser, post link	*Remote*
2018	**Absolute winner**, Moscow State University Math Olympiad	*Moscow, Russia*
2018	**Top-3%, Double Awardee**, ITMO Informatics Olympiad	*Moscow, Russia*
2018	**Absolute winner**, BMSTU Informatics Olympiad	*Moscow, Russia*

Activities & Leadership

- **Mentored intern** Machine Learning Engineer at Tinkoff. Mentee was hired and received positive feedback.
- **Interviewed 4 candidates** for the role of Machine Learning Intern.
- **Vice President** of the University's English speaking club.
- Gave a talk about my **University thesis**.
- Recorded a lecture and a seminar about Computer Vision classification architectures and Neural Architecture Search.
- Gave an intracorporate **talk** reviewing different Zero-Shot and Few-Shot object detection and classification approaches.
- **Volunteer** in application committee at the University in 2019 and in local orphanage in 2018.