

Sofia Potapova

Machine Learning Engineer

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Education

- Sep 2017 – Jun 2020 **Master of Computer Science**, *Moscow Institute of Physics and Technology*, Applied Math and Computer Science Degree.
Thesis: Next Best View via Reinforcement Learning.
- Sep 2013 – Jun 2017 **Bachelor of Computer Science**, *Moscow Institute of Physics and Technology*, Applied Math and Computer Science Degree.
Thesis: Heuristic Hyperparameter Optimization via Computational Learning Theory.
- Sep 2017 – Jun 2019 **Student**, *Yandex Data School*, Moscow, Computer Science Department.

Experience

- June 2020 – Present **Head of Data Science @ Co-founder**, *SmallTalk*, Remote.
Building NLP and Voice recognition product for AI English Speaking Coach.
 - Designed and developed English Speaking Grammatical/Pronunciation Error Correction pipeline.
 - Implemented Speech Vocabulary and Semantic analyzer.
 - Designed and developed automated English Speaking Test.
 - Stack:** Python, Pytorch, Docker.
- Mar 2019 – Mar 2020 **Machine Learning Engineer @ R&D Team**, *Orcadt*, Remote.
Working on recognition and tracking algorithms using CCTV.
 - Designed and developed Car Detection and Tracking pipeline.
 - Designed and developed Face Detection and Recognition pipeline.
 - Stack:** Python, TensorFlow, Pytorch, Docker, Kafka.
- Sep 2018 – Mar 2019 **Machine Learning Engineer @ Optelos**, *Flatlogic*, Remote.
Working on computer vision algorithms for Drone data management and AI Analytics platform for Optelos.
 - Designed and developed 2D object detector.
 - Designed data collection pipeline.
 - Stack:** Python, Docker, TensorFlow, OpenCV, Travis.
- Mar 2017 – Aug 2018 **Software Engineer @ Self-Driving Cars**, *Yandex*, Moscow.
Working on perception algorithms for autonomous cars.
 - Implemented LiDAR point cloud filters for adverse weather conditions.
 - Designed and developed 3D point cloud pedestrians detector.
 - Improved 3D point cloud vehicles detector by 14.6% (AP BEV metric).
 - Designed data annotation tasks: segmentation, 3D pedestrians detection, 2D objects detection.
 - Stack:** Python, C++, Cython, Docker, ROS, TensorFlow, OpenCV, Eigen, Teamcity.
- Oct 2016 – Dec 2016 **Research Intern @ Visual Systems**, *Institute for Information Transmission Problems*, Moscow.
 - Developed 2D edge detector in Buildings BEV (Bird Eye View) Detection problem.
 - Stack:** Python, scikit-learn, OpenCV.
- Oct 2017 – Jan 2020 **Course Assistant @ Coursera 'Deep Learning in Computer Vision'**, *HSE*, Remote.
- Feb 2020 – June 2020 **Course Assistant @ Yandex Data School 'Deep Learning'**, *Yandex*, Remote.

Skills

CS fields	Machine Learning, Deep Learning, Computer Vision, Reinforcement Learning
Programming languages	Python, Cython, C/C++
Data Science Libs	TensorFlow, Pytorch, OpenCV, Eigen
General dev	Unix/Linux, Docker, Git, SVN, Jira, Jupyter
Languages	English (advanced), Russian (native)