

Anna Vorontsova

Data Scientist/AI Researcher

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M.Sc. in Data Science (2020), B.Sc in Applied Mathematics (2018) from one of the best Russian universities. 5+ years of both industrial and research experience, focus on Computer Vision. Experience: Samsung. 6 research papers accepted to top-tier conferences (**CVPR**, **ECCV**, **IROS**, **WACV**). Hands-on experience with various DL models (**CNN**, **RNN**, **Transformers**) and frameworks (**PyTorch**, **Tensorflow**).

Experience

Oct 2018 **Samsung AI Center**
till now **AI Researcher, 2D/3D Computer Vision**
Python, PyTorch, Tensorflow, Open3D, OpenCV, trimesh

Developed state-of-the-art algorithms addressing 2D and 3D computer vision tasks: SLAM, visual and sensor-based localization, 3D reconstruction of indoor scenes, depth estimation, object segmentation, 2D and 3D object detection.

Formulated scientific hypotheses and conducted experiments to prove them. Co-authored academic papers accepted to top-tier CV and robotics conferences: **CVPR**, **ECCV**, **IROS**, **WACV**. Overall, contributed to 16 papers. Served as a reviewer. Have international patents on technical inventions. Developed demos and PoCs on visual odometry, visual indoor localization, fruit and vegetable weight measurement based on RGB-D data. Collected, labeled and prepared data for prototyping and research purposes: visual navigation, 3D reconstruction of indoor scenes, visual analytics for retail. Mastered all kinds of writing: academic manuscripts, regular reports, patents, technical tasks for data annotators, internal guides.

June 2017 – **Rambler&Co**
Oct 2018 **Junior Data Scientist, Computer Vision**
Python, PyTorch, Keras, scikit-learn, OpenCV

Contributed to a project on cinema visitor monitoring based on video surveillance data.

Developed algorithms based on deep neural networks (segmentation, classification, detection, tracking). Collected, labeled, and prepared training data. Conducted experiments and presented the results in reports and slides.

What once started as a small toy project run by one intern (me), was considered so successful that it convinced the top management to create a CV department, mostly to develop and maintain the cinema monitoring system. The implemented solution was used to collect statistics in over 700 cinema halls in Russia.

Education

Sep 2014 – **Bachelor of Applied Mathematics**
June 2018 Machine Learning and Applications track
HSE University

Sep 2018 – **Master of Data Science**
June 2020 HSE University

Sep 2018 – **Data Scientist, Advanced track**
June 2020 Yandex School of Data Analysis

Technical Skills

Code: Python, MATLAB, HTML/CSS
ML: scikit-learn, NumPy, SciPy, Pandas
CV: OpenCV, Open3D, trimesh
DL: PyTorch, Tensorflow
Tools: Git, Docker

Languages

Russian (native), English (upper-intermediate)