Vladislav Serkov

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Professional experience

Senior deep learning engineer at SharperShape: September 2019 - Present

- Designed a 3D point cloud segmentation pipeline that more than halved the manual processing time
- Reduced point cloud model training time from 7 days to 20 hrs and training and inference costs by more than 80%
- Developed stable object detection and classification pipelines for the labelling team, which accelerated the manual work by 50-70%
- Implemented a tree species classifier from hyper-spectral data which outperformed RGB-only baseline by 30%
- Reduced the object detector's false negative rate by 30% by simultaneously utilizing LiDAR and RGB data
- Improved the calibration between RGB camera and LiDAR sensor by 15% using line and edge detection algorithms
- Participated in educational activities resulting in 10 internal presentations for the upper management and the broader audiences
- Improved the development workflow in the team: conducting PR reviews of 5+ teammates, ensuring docstrings and type hinting, standardized code styles etc.

Deep learning engineer at Dexpa: November 2018 - August 2019

- Conducted an extensive research on SOTA time series forecasting approaches with the application to stock and currency exchange markets analysis
- Engineered an end-to-end pipeline for time series forecasting using a suit of neural networks, which consistently outperformed human and baseline strategies by 1-3%
- Led an intern from the ground up to be the main data scientist in the company in under 1 year

Senior data scientist at Stream (project): September 2018 - October 2018

- Developed a person ID demo for the images from the company's corporate events, so that 100+ employees could easily find themselves
- Drafted an implementation of an RTB auction platform for an upcoming project

Senior data scientist at DCA: October 2017 - August 2018

- Overhauled a high-load banner CTR prediction, which made bidding profitable without human intervention, while keeping the infrastructure costs fixed
- Created a 100M web pages embedding catalog for page categorization and 300M user clustering based on their interest

Data scientist at Flocktory: November 2014 - September 2017

- Designed and built a tool for matching product catalogs from 150+ e-commerce sites onto a universal taxonomy, which allowed cross-site matching of the purchases of 10M of customers
- Identified customer patterns for promotions, optimized the placement of hundreds of banner placements using reinforcement learning algorithm

Pricing analyst at Mamsy: March 2013 - October 2014

Skills

- Deep learning for RGB, point cloud, vector and hyper-spectral data, "classic" machine learning, computer vision, sensor fusion, structure from motion, data science
- python, pytorch, distributed training, pytorch-geometric, numpy, opencv, matplotlib, scikit-learn
- Linux, bash, docker, AWS, git, GitHub Actions,, jupyter, CoreML, SQL

Education

National Research University Higher School of Economics - Economist, September 2008 - August 2013