Vladimir Chernykh

Contacts

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Education

Jul 2018 – Aug 2016 | Master of Science in CS, **Skolkovo Institute of Science and Technology** & **Moscow Institute of Physics and Technology**, Moscow, Russia
Major: Data Analysis, GPA: **4.86**/5.00
Thesis: "Speech Emotion Recognition with RNN" | Advisor: Pavel Prikhodko

Jul 2016 – Sep 2012 | Bachelor of Science in Applied Mathematics and Physics, **Moscow Institute of Physics and Technology**, Moscow, Russia
Major: Intellectual Data Analysis, *with honors*, GPA: **4.93**/5.00
Thesis: "Optimization of Deep Learning models complexity under the lack of data" | Advisor: Evgeniy Riabenko, Konstantin Vorontsov

Work Experience

Present – Feb 2018 | **"Gigster"**, San-Francisco, CA, USA
Computer Vision Engineer (remote work)

- Full-stack development of cloud computer vision service. Invented and developed neural network based algorithms for several image processing problems (visual search, object detection, etc.). Deployed it into high-load production environment. Supported an integration with few business clients.
- Led the development of mobile computer vision library for iOS. Created an architecture of the library and implemented the main core modules of it.

Mar 2019 – Oct 2016 | **"Church and Duncan Inc."**, ML Boutique Consultancy, San-Francisco, CA, USA
Data Science Consultant (remote work)
Led and developed prototypes for a few client projects: face detection on embedded devices, large-scale text classification using word embeddings and deep learning, time series prediction for hierarchical data.

Sep 2017 – Jul 2017 | **"Yandex"**, Moscow, Russia
NLP Research Intern
Contributed to the Yandex "Alisa" personal assistant development. Investigated the convolutional encoders for both generative and retrieval conversational models and embedded them into production pipeline.

Sep 2017 – Feb 2017 | **University of Ghent**, Ghent, Belgium
"Target" Corporation, Minneapolis, MN, USA
Course co-author & Teaching Assistant
Professor: James G. Shanahan, UC Berkeley, CA, USA
Taught Deep Learning course. Prepared materials and code examples in Jupyter notebook. Evaluated homeworks and labs. Course covers conventional ML, neural networks, computer vision, NLP, speech recognition.

Sep 2015 – Jul 2015 | **"Scuderia Toro Rosso"** Formula-1 Racing Team, Faenza, Italy
Data Science Intern
Built a predictive model of tyre degradation during the race. Developed and optimized "Competitor Analysis Tool", extending it with statistics-based analytical features. Provided online support during the races.

Personal Projects

Present | **"CoreML Model Zoo"**, open-source github project
Launched and currently developing open-source collection of deep learning models for iOS mobile platform.

2019 | **"Machine Learning course"** for "Ostrovok" company
Created, sold and taught 1-month intensive ML course (lectures + labs + projects) for data/product analysts.

2018 | **"FIFA World Cup 2018"**, estimation of fans flows
Predicted and analysed densities and flows of soccer fans both from abroad and between match cities. The analysis is based on private purchased tickets info from organizing committee plus public-domain data.

Publications

Present | V. Chernykh, *Personal Blog* at Medium

Nov 2019 | V. Chernykh, N. Spirin, *"Fast and Lean Data Science With TPUs"* public speech at GDG DevFest Moscow 2019

Apr 2019 | M. Gorner, N. Spirin, V. Chernykh et al., *"Fast and Lean Data Science With TPUs"* co-author of public speech at Google Next'19

Nov 2017 | N. Spirin, V. Chernykh, *"Image Data and Modeling"* series of 8 articles, Intel AI Academy

Jan 2017 | V. Chernykh, P. Prihodko, *"Emotion Recognition from Speech with RNNs"*, arXiv:1701.08071

Dec 2015 | V. Chernykh, M. Stenina, *"Forecasting nonstationary time series under asymmetric loss"*, Journal of Machine Learning and Data Analysis, V.1, N.4(14), pp. 1893-1909, ISSN 2223-3792

Skills

- Programming
  - Python: advanced, main tool.
    Frameworks: Keras, Tensorflow, PyTorch, OpenCV, SciKit-Learn, Pandas, Flask, etc.
  - Swift (CoreML), Bash, C/C++, R, Matlab: confident.
- Other software
  - Git, Docker, Kubernetes, CI/CD
  - Cloud Computing: Google GCP, Amazon EC2, Microsoft Azure
  - LaTeX, Jira, Slack
- Fast deployment and incorporating of the AI components into the product using python full-stack development.

Awards & Scholarships & Certificates

2019 | McKinsey Datathon (50 international teams), *2^{nd} place*

"Sberbank AI Journey NLP Contest" (100 teams), *2^{nd} place*

2018 | "Data Science Game": Online + Onsite Phases (150 -> 20 teams), *8^{th} place*

2017 | McKinsey & Gett Big Data Hackathon (150 teams), *2^{nd} place*

Sberbank AI Holdem Poker Challenge (100 teams), *5^{th} place*

"Data Science Game": Online Phase (150 teams), *9^{th} place*

S7 Airlines Big Data Hackathon (200 teams), *1^{st} place*

Mar 2019 | "Professional Data Engineer", Google Cloud Certificate

Oct 2014
Feb 2013 | Abramov's scholarship for talented students, *awarded (4 times)*
Distributed every semester among best 100 (out of 5000) students

Personal

Langs | Russian (Native), English (Advanced, TOEFL 106), French (Beginner)

Sports | Snowboarding, Basketball, Volleyball, Soccer

Hobbies | Photography, Travelling, Formula-1