

Vladimir CHERNYKH

CONTACTS

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EDUCATION

- JUL 2018 | MS in COMPUTER SCIENCE, **Skoltech & MIPT**, Moscow, Russia
AUG 2016 | Major: Data Analysis, GPA: **4.86/5.00**
Thesis: "Speech Emotion Recognition with RNN" | Advisor: Pavel Prikhodko
- JUL 2016 | BS in APPLIED MATHEMATICS AND PHYSICS, **MIPT**, Moscow, Russia
SEP 2012 | 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** | **"retouchee"** | **Founder & CEO**
JUN 2020 | We enable e-commerce businesses to automate the retouching of their products using our advanced platform powered by custom-developed state-of-the-art Computer Vision algorithms.
- Set up the core processes in the company: strategy planning, team hiring, product development, sales, etc. I have sold the product to >5 large B2B clients and created legal and financial pipelines for it.
 - Developed and managed the consumer-facing portal consisting of 2 parts: client's and retoucher's. It has web and mobile versions and is integrated with Shopify. It has more than 720 users.
 - Built a production Machine Learning platform capable of handling >10 RPS workloads. Filled it with 5 own-developed Computer Vision models. It has already processed 50,000 images.
- JUN 2020 | **"Gigster"**, San-Francisco, US | **Lead Computer Vision Engineer**
FEB 2018 | Built a Computer Vision cloud service for Canon. I was responsible for the full lifecycle of ML models: problem statement, inventing the solution, implementing and deploying it into the production. The service has been integrated with 4 client-facing products, featured at CES2019 and presented to the CEO of Canon.
- Did a full-stack development of a cloud Computer Vision service exposed as an API. It was a highly stable platform with 20 ML models that sustained more than 100 RPS peak loads from 1000s of users.
 - Created custom Deep Learning based algorithms for more than 10 image processing problems: tagging by visual search, object detection, semantic segmentation, etc. It included both research and MLOps.
 - Converted the service for mobile use on iOS using CoreML for models and Swift for infrastructure.
- OCT 2019 | **"Church & Duncan"** Boutique Consultancy, San-Francisco, US | **DS Consultant**
NOV 2016 | Consulted clients on AI strategy. Built apps: edge face detector, 3D point clouds segmentation, noisy hierarchical time series forecasting. Created ML courses taught at Ghent University and Target Corporation.
- SEP 2017 | **"Yandex"**, Moscow, Russia | **NLP Researcher**
JUN 2017 | Developed "Alisa" personal voice assistant. Researched generative, retrieval, and mixed approaches to conversational dialogue models. Investigated the performance of text encoders: convolutional, recurrent, attention.
- SEP 2015 | **"Scuderia Toro Rosso"** Formula-1 Racing, Faenza, Italy | **Data Science Engineer**
JUL 2015 | Worked on tools for real-time analysis of the race car telemetry, extending it with statistical-based features. Built a predictive model of tyre degradation during the race. Provided online support for drivers.

PERSONAL PROJECTS

- 2020 | **"CoreML Model Zoo"**, open-source github project
Collection of Deep Learning models for iOS mobile platform along with performance and quality benchmarks.
- 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.
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PATENTS & PUBLICATIONS

JUL 2021	Patent RU2751137C1 <i>“Method for determining sleep phase in long-term EEG recording”</i>
AUG 2020	Patent WO2020172366A1 <i>“Method for image searching and evaluation using tags”</i>
PRESENT	V. Chernykh, <i>Personal Blog</i> at Medium, >4000 views
NOV 2019	V. Chernykh, N. Spirin, <i>“Fast and Lean Data Science With TPUs”</i> public speech at GDG DevFest Moscow 2019
APR 2019	M. Gorner, N. Spirin, V. Chernykh et al., <i>“Fast and Lean Data Science With TPUs”</i> co-author of public speech at Google Next’19
NOV 2017	N. Spirin, V. Chernykh, <i>“Image Data and Modeling”</i> series of 8 articles, Intel AI Academy
JAN 2017	V. Chernykh, P. Prihodko, <i>“Emotion Recognition from Speech with RNNs”</i> , arXiv:1701.08071
DEC 2015	V. Chernykh, M. Stenina, <i>“Forecasting nonstationary time series under asymmetric loss”</i> , Journal of Machine Learning and Data Analysis, V.1, N.4(14), pp. 1893-1909, ISSN 2223-3792

SKILLS

- **Programming**
 - Systems architecture, API design, async programming, client-server interaction, mobile apps.
 - Python: full proficiency, main tool. Machine Learning and full-stack development. Frameworks: PyTorch, Tensorflow, OpenCV, SciKit-Learn, Pandas, Flask, FastAPI, Pydantic, Pytest etc.
 - Swift (CoreML), C/C++, Bash, JavaScript, Vue.js, CSS, SQL, R, Matlab: confident.
- **Other software**
 - Git, Docker, Kubernetes, CI/CD, Jenkins, Redis, NATS
 - Cloud Computing: Google GCP, Amazon AWS, Microsoft Azure, Terraform, Ansible
 - LaTeX, Jira, Asana, Slack
- Building AI-powered data-driven products for business applications from scratch.

AWARDS & SCHOLARSHIPS & CERTIFICATES

2019	McKinsey Datathon (50 international teams), <i>2nd place</i> “Sberbank AI Journey NLP Contest” (100 teams), <i>2nd place</i>
2018	“Data Science Game”: Online + Onsite Phases (150 -> 20 teams), <i>8th place</i>
2017	McKinsey & Gett Big Data Hackathon (150 teams), <i>2nd place</i> Sberbank AI Holdem Poker Challenge (100 teams), <i>5th place</i> “Data Science Game”: Online Phase (150 teams), <i>9th place</i> S7 Airlines Big Data Hackathon (200 teams), <i>1st place</i>
MAR 2019	“Professional Data Engineer”, Google Cloud Certificate
OCT 2014	ABRAMOV’S SCHOLARSHIP for talented students, <i>awarded (4 times)</i>
FEB 2013	Distributed every semester among best 100 (out of 5000) students

PERSONAL

LANGS	Russian (Native), English (Full professional proficiency, TOEFL 106), French (Elementary)
HOBBIES	Snowboarding, Basketball, Squash, Photography, Travelling, Formula-1