Oleg Khomenko

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SUMMARY

AI Founder | ML Engineer

- **Founder & CEO**: ChaChat and neiro.ai
- **8+ years** of hands-on experience in machine learning with a focus on multimodal generative AI (vision, video, and language models).
- **5+ years** building and shipping AI-first mobile apps used by thousands of consumers.
- **Master of Science in Data Science** (Mathematics and Computer Science)

WORK EXPERIENCE

ChaChat (ex- Neiro.ai) — Apr 2022 to **Present**
Founder & CEO • https://neiro.ai — San Francisco, US / Tbilisi, GE

- Founded and built ChaChat (b2c), scaled to **700K+ downloads** and **$1M+ MRR.**
- Founded and built Neiro.ai (b2b), partnered with Adobe and Canva

Neiro.ai — Sep 2020 to Apr 2022
Founder & CTO • https://neiro.ai — San Francisco, US / Tbilisi, GE

- Built and scaled R&D team from 0 to 12 ML Engineers
- Shipped image and video generation pipelines
- Improved in-house Detection, Segmentation & Classification
- Optimized on-device CoreML models for iOS, enabling real-time inference (<70ms) on iPhone 11+ without server calls

Samsung AI Center, Moscow — Jun 2018 to Aug 2020
Leading Deep Learning Engineer • https://research.samsung.com/aicenter — Moscow, Russia

- **Multimodal Data Analysis Lab**
- Co-authored patents and published computer vision papers at top conferences (including ECCV)
- My research was primarily focused on Image & Video generation, Photorealistic Style Transfer, and Super Resolution

General Electric Co — Jun 2017 to Jun 2018
Digital Technology Leadership Program / Solution Architect • https://www.ge.com — Moscow, Russia

- **Designed and shipped web services on GE's Predix cloud platform**
- Built and deployed machine learning and data analytics microservices, turning batch analytical models into production APIs used by internal product teams.
- Drove architecture and execution for a suite of microservices, coordinating across engineering and product stakeholders to meet reliability and performance targets.

LLC "DATADVANCE" — Mar 2017 to Jun 2017
Research Intern • https://www.datadvance.net/ — Moscow, Russia

- **Developed predictive maintenance models for Airbus A319 fleet**
- Built outlier and anomaly detection pipelines on flight telemetry data (SVMs, ARIMA, GBM), improving early warning accuracy

JSC "ALFA-BANK" — Jun 2016 to Jun 2017
Data Analyst • https://potok.digital — Moscow, Russia

- **Developed and implemented credit risk models for a P2B lending platform**
- Built a REST API powering credit scoring operations
- Collected, processed, and analyzed transactional data with Python

EDUCATION

Skolkovo Institute of Science and Technology — Aug 2015 to Jun 2017
Master of Science in Data Science — Mathematics and Computer Science

National Research Tomsk Polytechnic University — Sep 2010 to Jun 2014
Bachelor of Science in Information Systems and Technology

SKILLS

ML/AI: PyTorch, PyTorch Lightning, diffusers, comfyui, transformers, vLLM, scikit-learn, LightGBM
Backend: FastAPI, Flask
Frontend: Next.js, React, TypeScript, JS
DevOps & Workflow: kubernetes, Docker, Redis, Airflow, Nginx, Bash, GitHub Actions
Databases: PostgreSQL, ClickHouse
Mobile: Swift, CoreML

PUBLICATIONS (For more, please see Google Scholar)

Method of on-device generation and supplying wallpaper stream and computing device implementing the same (Patent, WO2022075533A1) — 2022
R. Suvorov, E. Logacheva, V. Lempitsky, A. Mashikhin, O. Khomenko
https://patents.google.com/patent/WO2022075533A1/

Joint unsupervised object segmentation and inpainting (Patent, WO2020101246A1) — 2020
P. Ostyakov, R. Suvorov, E. Logacheva, O. Khomenko, S. Nikolenko
https://patents.google.com/patent/WO2020101246A1

The Impact of Intervention-Related Risk Factors on the Risk of Ventilator-Associated Pneumonia Is High in a Neurosurgical Intensive Care Unit. — 2020
Ershova, K., Khomenko, O., Ershova, O., Savin, I., Kurdumova, N., Danilov, G. and Shifrin, M., 2020.
Infection Control & Hospital Epidemiology, 41(S1), pp.s407-s409.
https://www.cambridge.org/core/journals/infection-control-and-hospital-epidemiology

DeepLandscape: Adversarial Modeling of Landscape Videos — 2020
Elizaveta Logacheva, Roman Suvorov, Oleg Khomenko, Anton Mashikhin, Victor Lempitsky (2020).
In Proceedings of the European Conference on Computer Vision (ECCV).
https://github.com/advimman/deep-landscape
https://www.ecva.net/papers/eccv_2020/papers_ECCV/papers/123680256.pdf

The Kaplan-Meier Model Overestimates The Probability Of Healthcare-Associated Infections In ICU Patients — 2020
Ksenia Ershova, Martin Wolkewitz, Oleg Khomenko, Olga Ershova, Vladimir Zelman
Abstract @ IARS, AUA & SOCCA 2020 Annual Meetings in San Francisco
https://archive.aievolution.com/2020/ars2001/index.cfm?do=abs.viewAbs&abs=4404

YouTube-8M, (Kaggle competition, 2nd place) — 2018
Label Denoising with Large Ensembles of Heterogeneous Neural Networks
Ostyakov, P., Logacheva, E., Suvorov, R., Aliev, V., Sterkin, G., Khomenko, O., & Nikolenko, S. I. (2018).
In Proceedings of the European Conference on Computer Vision (ECCV).
https://arxiv.org/abs/1809.04403

SEIGAN: Towards Compositional Image Generation by Simultaneously Learning to Segment, Enhance, and Inpaint — 2018
Ostyakov, P., Suvorov, R., Logacheva, E., Khomenko, O., & Nikolenko, S. I. (2018).
https://arxiv.org/abs/1811.07630

Healthcare-associated ventriculitis and meningitis in a neuro-ICU: Incidence and risk factors selected by machine learning approach. — 2018
Savin, I., Ershova, K., Khomenko, O., Danilov, G., ... & Zelman, V. (2018). Journal of critical care, 45, 95-104.
https://doi.org/10.1016/j.jcrc.2018.01.022