Boris Shminke

Machine Learning Researcher/Engineer

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About me

I'm an ML and big data professional with 10+ years of experience. I'm currently interested in applications of AI with a focus on reinforcement learning and graph-neural networks. I'm Russian with a French residence and work permit.

Languages

English - full proficiency
French - limited proficiency
Russian - native

Technologies

Machine Learning
- reinforcement learning (Ray)
- deep learning (PyTorch)
- recommender systems

Data Engineering
- Spark, Kafka, Hadoop, AirFlow
- Oracle, Teradata, SAS
- pandas

DevOps
- Docker
- CircleCI, AppVeyor
- Google Cloud Platform

Team work: git, Scrum, Kanban
Python: numpy, scipy, sklearn, Jupyter
Other DBs: PostgreSQL, Vertica, MongoDB

education

Ph.D. (mathematics) — 10.2020-09.2023
Université Côte d'Azur
Thesis title: *Applications of AI to study of finite algebraic structures and automated theorem proving*

Master equivalent (recognised by ENIC-NARIC) (applied maths) — 09.2003-03.2009
Moscow Aviation Institute (National Research University)
Thesis title: *Application of critical cases theory to stabilization problems with incomplete information*

experience

French National Centre for Scientific Research (CNRS) — 10.2020-09.2023
PhD candidate
developed a collection of OpenAI Gym environments for provers
wrote a Python client to Isabelle proof assistant server
automatically solved an open research question in abstract algebra
created and taught Master courses on distributed big data and recommender systems

Largest Russian bank (Sberbank) — 11.2018-09.2020
team lead in the AI R&D unit
built a financial news recommender for a mobile app with 40M users
created and maintained a recommender systems library
hired and supervised a team of ML Researcher Engineers

Online cinema with 30M users (ivi.ru) — 11.2015-10.2018
big data team lead
applied model-based movie recommendations to improve CTR
maintained the recommender serving over 1000 requests per sec.
hired and supervised a team of ML Engineers

One of the largest Russian learning platforms (netology.ru) — 12.2017-07.2018
part-time instructor&content creator
created and taught a course on recommender systems

Top-30 Russian bank (TRUST) — 09.2014-10.2015
senior risk analyst
core developer at a consumer credit automation project

Moscow office of an international consulting firm (Business & Decision, now part of Orange Group) — 05.2014-09.2014
senior analyst for a project
successfully implemented a cross-sell model data pipeline project
supervised a team of Data Engineers

Top-30 Russian banks (Binbank) — 05.2013-05.2014
senior analyst
created BI dashboards for consumer credit scoring

Largest BI and Big Data Solutions provider in Russia (Glowbyte) — 11.2010-04.2013
senior data engineer
built a data pipeline for an anti-fraud model
supervised a team of Data Engineers

Leading Russian developer of IT solutions for air transport (IATVT) — 08.2009-10.2010
programmer
financial reports automation

Russian ERP software developer (Comtec) — 03.2009-08.2009
programmer
full stack development for financial reporting

certificates

Oracle PL/SQL Developer Certified Associate	2015
SAS Certified Advanced Programmer	2014
Oracle Database SQL Certified Expert	2013
Certificate in Advanced English (Cambridge ESOL)	2012
SAS Certified Base Programmer for SAS 9	2011

additional info

In addition to my daytime job, I've contributed code to Apache Spark and Ray RLlib, among other open-source projects. Apart from coding, I enjoy hiking.