Boris Shminke

Machine Learning Engineer

- 16 June 1986
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About me

I'm an ML and big data professional with 15+ years of experience. I'm currently interested in applications of AI and cloud technologies in various domains. I'm Russian with a French residence and work permit ("passeport talent").

Languages

English - full working proficiency
French - professional working proficiency
Russian - native

Technologies

Machine Learning
- LLMs (LangChain)
- reinforcement learning (Ray)
- recommender systems

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

DevOps
- Terraform, Docker
- GitLab CI, CircleCI
- Azure, AWS

Team work: git, Scrum, Kanban
Python: pytorch, numpy, scipy, jupyter

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

Expleo France — since 11.2023
R&D Engineer
infrastructure-as-code and backend for GenAI training assistant
hierarchical data extraction from free text with LLMs

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

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

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

AWS Certified Cloud Practitioner	2024
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 contribute code to open-source projects (Apache Spark and Ray RLlib among them) and do reviews for the Journal of Open Source Software. Apart from coding, I enjoy hiking.