

# **Boris Shminke Machine Learning**

Engineer

16 June 1986



Toulouse, France



+33 788769442



https://boris.shminke.com



boris@shminke.com

#### 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

#### e

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) PhD candidate	10.2020-09.2023
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) big data team lead	11.2015-10.2018
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) senior risk analyst	09.2014-10.2015
core developer at a consumer credit automation project	
Moscow office of an international consulting firm (Business & Decision, now part of Orange Group) senior analyst for a project	05.2014-09.2014
successfully implemented a cross-sell model data pipeline project supervised a team of Data Engineers	
Top-30 Russian banks (Binbank) senior analyst	05.2013-05.2014
created BI dashboards for consumer credit scoring	
Largest BI and Big Data Solutions provider in Russia (Glowbyte) senior data engineer built a data pipeline for an anti-fraud model supervised a team of Data Engineers	11.2010-04.2013
Leading Russian developer of IT solutions for air transport (IATVT) programmer financial reports automation	08.2009-10.2010
Russian ERP software developer (Comtec)	03.2009-08.2009
programmer full stack development for financial reporting	

## certificates

Microsoft Certified: Azure Developer Associate	2025
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.