


Nikita Kozodoi, PhD

AI scientist working at the frontier of research and business. PhD and 7+ years of applied AI/ML experience, currently focusing on Generative AI. Proven ability to design and build scalable, robust, end-to-end AI-powered solutions that drive business impact across industries. Strong public speaker with 25+ talks top tech summits, meetups, and academic conferences.

 kozodoi.me (personal AI blog)

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Experience

- 09/2024 – present **Senior Applied Scientist - Generative AI**, *Amazon Web Services*, Berlin [\[Team\]](#).
- building generative AI solutions to address diverse business problems across industries
 - leveraging AWS to design, build, and deploy custom LLM- and ML-powered workflows
 - directly working with large-scale customers such as Nasdaq, Ryanair, and adidas
- 07/2022 – 08/2024 **Applied Scientist - Generative AI**, *Amazon Web Services*, Berlin.
- 04/2022 – 06/2022 **Project-Based Data Scientist**, *Simply Rational*, Berlin, freelance.
- identified customer segments and prototyped segment prediction models from incomplete data
 - analyzed A/B tests results to determine treatments improving customer repayment by up to 6%
- 04/2018 – 03/2022 **Data Science Research Associate**, *Monedo / Humboldt University*, Berlin.
- developed sample bias mitigation algorithms to improve model profitability by up to 3%
 - reduced data acquisition costs by up to 25% using multi-objective feature selection methods

Education

- 04/2018 – 03/2022 **Ph.D. in Machine Learning, Information Systems**, *Humboldt University*, Berlin.
Published 5 papers on ML for credit risk analytics with over 400 citations. Degree with Honors. [\[Thesis\]](#)
- 10/2015 – 12/2017 **M.Sc. in Economics, Quantitative Methods**, *Humboldt University*, Berlin, GPA: 1.30 (A).
Focused on Data Science and Predictive Analytics. Thesis topic: ML for box office forecasting.
- 09/2010 – 06/2014 **B.Sc. in Economics**, *Higher School of Economics*, Moscow, GPA: 1.31 (A).
Focused on Statistics and Econometrics. Top-1 in the 4-year student ranking. Degree with Honors.

Selected Projects

- 10/2024 – present **IDP with Amazon Bedrock**: Open-source cloud solution for document processing at scale with GenAI.
Lead developer and owner of the open-source AWS CDK solution for AI-driven IDP [\[Blog post\]](#) [\[GitHub\]](#)
- 10/2024 – present **LLM Self-Reflection**: Open-source Python library for test-time LLM inference techniques.
One of the core developers of the library that implements self-reflection algorithms [\[GitHub\]](#)
- 09/2018 – 02/2022 **Kaggle Master**. Won 18 competition medals. Reached top-1% of the global user ranking. [\[Projects\]](#)






Selected Publications





- 06/2020 – present **AI Blog**. Publishing AI insights, Python tutorials, ML tips, and more. Reached 10k monthly views. [\[Blog\]](#)
- 11/2021 **Fairness in credit scoring: Assessment, implementation, profit implications**, *EJOR*. [\[Paper\]](#) [\[GitHub\]](#)
- 04/2020 **Shallow self-learning for reject inference in credit scoring**, *ECML PKDD*. [\[Paper\]](#) [\[Talk\]](#)
- Further ML papers, blog posts, and talks are available on my website. [\[Publications\]](#)

Selected Certifications

- 03/2025 **AWS Certified ML Engineer Associate**. Demonstrated ability to build and deploy ML solutions on AWS.
- 01/2023 **AWS Certified Solutions Architect Associate**. Showed comprehensive understanding of AWS services.
- 05/2020 **Udacity ML Engineer Nanodegree**. Learned to build and deploy ML models using Amazon SageMaker.
Further AWS certifications and course completions are available on my website. [\[Certificates\]](#)

Technical Stack

Tools  Python, TypeScript, Docker  VSCode, Windsurf  AWS, Terraform, CDK  React  Git

Libraries  Pandas, Numpy, Streamlit  PyTorch  LangChain, Transformers, Strands  Scikit-Learn, XGBoost

Soft Skills

- Languages **English** (C2), **German** (C1), **Russian** (native)
- Key skills
- strong motivation to learn and be curious
 - attention to detail and scientific mindset
 - excellent communication skills [\[Public talks\]](#)
 - rich experience of working with ambiguous problems