Nikita Kozodoi, Ph.D.

ML scientist working on the frontier of research and business. With Ph.D. in ML and certified AWS ML knowledge, practical experience in diverse ML/DL areas and strong communication skills, I am passionate about using AI to solve business problems. ♦ kozodoi.me (portfolio & ML blog) in linkedin.com/in/kozodoi github.com/kozodoi ☑ n.kozodoi@icloud.com Experience 07/2022 - present Applied ML Scientist, Amazon Web Services, Berlin. developing cutting-edge ML/DL solutions to solve diverse business problems across industries o interacting with corporate clients to define problems and implement scalable ML solutions 04/2022 - 06/2022 **Project-Based Data Scientist**, *Simply Rational*, Berlin, freelance. o identified customer segments and prototyped segment prediction models from incomplete data o determined suitable treatments from A/B tests results and presented findings to corporate clients 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% o reduced data acquisition costs by up to 25% using multi-objective feature selection methods o published 5 ML papers with over 90 total citations and delivered 5 conference talks [Papers] Education 04/2018 - 06/2022 Ph.D. in Machine Learning, Information Systems, Humboldt University, Berlin. Research on ML for credit risk analytics. Teaching ML and supervising theses. Diploma with Honors. 10/2015 - 12/2017M.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. Diploma with Honors. Certifications 01/2022 AWS Certified Machine Learning, AWS. Learned training, tuning and deploying ML models on AWS. 06/2020 Deep Learning Nanodegree, Udacity. Implemented CNNs, RNNs and LSTMs in PyTorch. Machine Learning Engineer Nanodegree, Udacity. Deployed ML models on Amazon SageMaker. Further certificates and course descriptions are available on my website. [Certificates] Selected ML Projects 05/2021 - 08/2021 **Text Readability Prediction.** Developed a PyTorch pipeline for text complexity prediction with transformers. Deployed a web app for scoring custom texts. Placed top-9% in the Kaggle competition. [App] [GitHub] 03/2021 - 06/2021 Image-to-Text Molecular Translation. Translated molecule images into chemical formulas with PyTorch. Built a CNN-LSTM architecture for image captioning. Placed top-5% in the Kaggle competition. [GitHub] 09/2019 - 04/2021 Fairness: Package for Fair ML. Building and maintaining an R package with over 17k total downloads. Implemented calculation and visualization of fairness metrics. Wrote documentation. [Blog post] [GitHub] 09/2018 - present Kaggle Master. Won 18 competition medals. Top-1% of the global user ranking. [Projects] Selected ML Publications 06/2020 - present ML Blog. Publishing ML/DL tutorials and project overviews. Reached over 10k monthly views. [Blog] 11/2021 Fairness in credit scoring: Assessment, implementation and profit implications, EJOR. [Paper] [GitHub] 04/2020 Shallow self-learning for reject inference in credit scoring, ECML PKDD. [Paper] [Meetup talk] 05/2019 A multi-objective approach for profit-driven feature selection in credit scoring, DSS. [Paper] Technical Stack Tools **\rightarrow** Python, R, SQL (interm) \bigcup VSCode, Jupyter ▲ AWS Cloud (SageMaker, EC2) Packages 🎛 Pandas, NumPy 📚 PyTorch, TensorFlow (interm) 🚓 Scikit-learn, XGBoost 🛍 Huggingface, Timm

Soft Skills

Languages English (C2), German (C1), Russian (native)

Strong motivation to learn and improve Key skills

o attention to detail and scientific mindset

excellent communication skills [Public talks]
rich experience of working in team projects