Nikita Kozodoi

ML/DL researcher working on the frontier between research and business. With certified ML expertise, rich experience in competitive ML, and strong coding and public talking skills, I am enthusiastic about using AI to improve decision-making and create value. My latest projects focus on ML for tabular and computer vision problems. https://kozodoi.me (portfolio & ML blog) in linkedin.com/in/kozodoi github.com/kozodoi ■ n.kozodoi@icloud.com Experience 04/2018 - present Data Science Research Associate, Monedo / Humboldt University, Berlin. developed sample bias correction algorithms to improve model profitability by up to 3% reduced data acquisition costs by up to 25% using multi-objective feature selection o published 5 research papers with 65 citations and delivered 5 conference talks [Papers] 09/2018 - 08/2020Project-Based Data Scientist, Simply Rational, Berlin. o identified customer segments for targeting and predicted clusters from incomplete data o determined suitable treatments from A/B tests and presented findings to corporate clients 07/2016 - 03/2018 Research Assistant, Max Planck Institute for Human Development, Berlin. benchmarked ML algorithms against managerial heuristics and analyzed key performance drivers Education 04/2018 - present PhD in Machine Learning, Information Systems, Humboldt University, Berlin. Research on ML in credit scoring. Teaching Data Science and supervising student theses. M.Sc. in Economics, Quantitative Methods, Humboldt University, Berlin, GPA: 1.30 (A). 10/2015 - 12/2017Focused on ML and Data Science. Double-degree program with HSE Moscow. 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 rating. Certifications AWS Certified Machine Learning, Amazon. Training, tuning and deploying ML models on AWS. [Certificate] Deep Learning Nanodegree, Udacity. Implemented CNNs, RNNs and GANs in PyTorch. [Certificate] 06/2020 05/2020 Machine Learning Engineer Nanodegree, Udacity. Deployed ML models on AWS SageMaker. [Certificate] Courses with certificates: Data Structures, Algorithmic Toolbox, SQL for Data Science. Selected ML Projects 06/2020 - present Machine Learning Blog. Implementing and hosting ML blog with over 7k monthly page views. Publishing ML/DL tutorials, Kaggle competition solutions and project overviews. [Blog] [GitHub] 05/2021 - 08/2021Text Readability Prediction. Developed a PyTorch pipeline for text complexity prediction with transformers. Built an interactive web app for text scoring. Reached top-9% in the Kaggle competition. [Web app] [GitHub] 03/2021 - 06/2021 Image-to-Text Molecular Translation. Translated molecule images into chemical formulas with PyTorch. Implemented a CNN-LSTM architecture for image captioning. Reached top-5% in the Kaggle competition. [GitHub] Kaggle Master. Won 18 competition medals. Top-1% in Competitions, Notebooks and Discussion. [Profile] [Portfolio] Selected ML Publications 06/2021 Fairness in credit scoring: Assessment, implementation and profit implications, European Journal of OR. Benchmarked fair ML algorithms and analyzed the profit-fairness trade-off. [Paper] [GitHub] 04/2020 Shallow self-learning for reject inference in credit scoring, European Conference on ML and PKDD. Proposed a self-training based approach for bias correction in credit scoring. [Paper] [Slides] 09/2019 A multi-objective approach for profit-driven feature selection in credit scoring, Decision Support Systems. Developed a profit-driven feature selection framework using multi-objective genetic algorithms. [Paper] Technical Stack Tools Python, R, SQL (interm) **☐** VSCode, Jupyter AWS Cloud (SageMaker, EC2, Lambda) Sit, Trello ■ Pandas, NumPy A Scikit-learn, XGBoost, LightGBM, Optuna Matplotlib, Seaborn **Packages** PyTorch, TensorFlow (interm) Timm, Albumentations Huggingface Soft Skills Languages English (C2), German (C1), Russian (native)

Excellent presentation skills [Public talks]

Business-oriented thinking

• Rich experience of working in team projects

• Scientific mindset and strong motivation to learn

Key skills