

Nikita Kozodo

ML/DL researcher with expertise in competitive ML and economic background

 □ n.kozodoi@icloud.com • in https://linkedin.com/in/kozodoi • https://kozodoi.me (project portfolio & ML blog) ○ https://github.com/kozodoi Experience 04/2018 - present Data Science Research Associate, Monedo / Humboldt University, Berlin. o developing solutions to improve ML model performance and evaluation under sampling bias o implementing fair ML algorithms and investigating profit-fairness trade-off in credit scoring models optimizing data acquisition costs with multi-objective profit-driven feature selection 07/2016 - 03/2018 Research Assistant, Max Planck Institute for Human Development, Berlin. o benchmarked managerial heuristics against ML algorithms in customer classification problems o analyzed factors affecting the predictive performance on marketing data sets Education 04/2018 - present PhD in Information Systems, Machine Learning, Humboldt University, Berlin. Research on ML/DL applications for credit scoring. Teaching ML and supervising M.Sc. dissertations. 10/2015 - 12/2017 M.Sc. in Economics and Management Science, Humboldt University, Berlin, GPA: 1.30 (A). Focused on Machine Learning and Data Science. Double-degree program with HSE Moscow. 09/2010 - 06/2014 B.Sc. in Economics, Higher School of Economics, St. Petersburg, GPA: 1.31 (A). Focused on Statistics, Time Series and Econometrics. Top-1 in the 4-year student grade rating. Certificates 09/2021 SQL for Data Science, UC Davis. Learned SQL for data extraction and manipulation 06/2020 Deep Learning Nanodegree, *Udacity*. Implemented CNNs, RNNs and GANs in PyTorch [certificate] 05/2020 Machine Learning Engineer Nanodegree, Udacity. Deployed ML/DL models on AWS Sagemeaker [certificate] Technical Stack Tools Python, R, SQL (interm) **☐** VSCode, Atom, Jupyter Sit, Trello AWS Sagemaker, Neptune **IIII** matplotlib, seaborn pandas, numpy, scipy ♣ scikit-learn, xgboost, lightgbm, hyperopt **Packages** pytorch, tensorflow (interm) imm, opency, albumentations transformers image classification, object detection, image captioning sentiment analysis, text classification **Applications** Selected ML Competitions 08/2021 CommonLit Readability Prize, top-9%. Predicted text readability with transformers, built a web app [GitHub] 06/2021 BMS Molecular Translation, top-5%. Developed CNN-LSTM architecture for image-to-text translation [GitHub] 02/2021 Cassava Leaf Disease Classification, top-1%. Identified plant diseases with deep learning [GitHub] Kaggle Master. Top-1% in Competitions, Notebooks and Discussion. Profile: https://kozodoi.me/kaggle Selected ML Publications 06/2021 Fairness in credit scoring: Assessment, implementation and profit implications European Journal of Operational Research [doi.org/10.1016/j.ejor.2021.06.023] [GitHub] 04/2020 Shallow self-learning for reject inference in credit scoring European Conference on ML and PKDD [doi.org/10.1007/978-3-030-46133-1] [Slides] 09/2019 A multi-objective approach for profit-driven feature selection in credit scoring Decision Support Systems [doi.org/10.1016/j.dss.2019.03.011] Further Skills

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

o Passionate about machine learning and data Key skills

Excellent presentation skills

- Inspired by using ML to improve decision-making
- Strong motivation to learn and improve