

## Nikita Kozodoi

ML/DL researcher with focus on tabular and computer vision problems

 □ n.kozodoi@icloud.com in https://linkedin.com/in/kozodoi • Shttps://kozodoi.me (project portfolio & ML blog) https://github.com/kozodoi Experience Data Science Research Associate, Monedo / Humboldt University, Berlin. 04/2018 - present o developing solutions to improve performance and evaluation of ML models under sampling bias o investigating profit-fairness trade-off in credit scoring models with fair ML algorithms o optimizing data acquisition costs with multi-objective profit-driven feature selection Project-Based Data Scientist, Simply Rational, Berlin. 09/2018 - 08/2020o worked on multiple projects, including customer segmentation and treatment effect estimation o developed project-specific ML pipelines and prototypes for corporate clients 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 07/2021 SQL for Data Science, UC Davis. SQL for data extraction and manipulation 06/2020 Deep Learning Nanodegree, Udacity. Building CNNs and RNNs in PyTorch [certificate] 05/2020 Machine Learning Engineer Nanodegree, Udacity. Deploying ML/DL models in AWS [certificate] Technical Stack Tools Python, R, SQL (interm) Git, Trello pandas, numpy, scipy scikit-learn, xgboost, lightgbm, hyperopt **IIII** matplotlib, seaborn **Packages** pytorch, tensorflow (interm) imm, opency, albumentations transformers image classification, object detection, image captioning sentiment analysis, text classification Applications ⊞ classification, regression, clustering, dimensionality reduction Selected ML Competitions 06/2021 BMS Molecular Translation, top-5%. Image-to-text translation with CNN-LSTM encoder-decoder. 02/2021 Cassava Leaf Disease Classification, top-1%. Identifying plant diseases with CNNs and Transformers. 02/2019 Google Analytics Revenue Prediction, top-2%. Predicting customer spending with gradient boosting. 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] Shallow self-learning for reject inference in credit scoring 04/2020 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)

- Strong motivation to learn and improve
- Excellent presentation skills

o Inspired by using ML to improve decision-making