

Nikita Kozodo

ML/DL researcher with expertise in 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 - presento developing solutions to mitigate the impact of sampling bias on ML models in credit scoring o investigating profit-fairness trade-off with fair ML algorithms o performing cost-driven feature selection with multi-objective evolutionary algorithms 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 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 Econometrics and Statistics. Diploma with honors. Top-1 in the 4-year student rating. Certificates 06/2021 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 and DL models in AWS [certificate] Technical Stack Tools Python, R, SQL (interm) **☐** VSCode, Atom, Jupyter AWS Sagemaker, Neptune Git, Trello **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 聞 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 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 European Conference on ML and PKDD [doi.org/10.1007/978-3-030-46133-1] [Slides] 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) Passionate about machine learning and data o Inspired by using ML to improve decision-making Key skills

- Strong motivation to learn and improve
- Excellent presentation skills