

Nikita Kozodoi

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

○ ☐ n.kozodoi@icloud.com • in https://linkedin.com/in/kozodoi • Shttps://kozodoi.me (project portfolio & ML blog) https://github.com/kozodoi Experience $04/2018-present \quad \textbf{Data Science Research Associate}, \ \textit{Monedo} \ / \ \textit{Humboldt University}, \ \textit{Berlin}.$ o developing solutions to improve ML model training and evaluation under sampling bias o implementing fair ML algorithms and investigating profit-fairness trade-off in credit scoring models o optimizing data acquisition costs with multi-objective profit-driven feature selection 09/2018 – 08/2020 Project-Based Data Scientist, Simply Rational, Berlin. o worked on multiple projects, including customer segmentation and treatment effect estimation o preprocessed data and 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 10/2021 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, Jupyter AWS (Sagemaker, EC2), Neptune.ai Sit, Trello □ Pandas, NumPy & Scikit-learn, XGBoost, LightGBM, Hyperopt Matplotlib, Seaborn Packages PyTorch, TensorFlow (interm) Timm, Albumentations HuggingFace ■ classification, regression, clustering, dimensionality reduction sentiment analysis, text classification Applications image classification, object detection, image captioning Selected ML Competitions 08/2021 CommonLit Readability Prize, top-9%. Predicted text readability with transformers [GitHub] [web app] 06/2021 BMS Molecular Translation, top-5%. Built 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

Further Skills

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

Key skills

- Passionate about machine learning and data
- \circ Inspired by using ML to improve decision-making

Decision Support Systems [doi.org/10.1016/j.dss.2019.03.011]

- Excellent presentation skills [my talks]
- Scientific mindset and strong motivation to learn