Nikita Kozodoi

ML researcher & PhD candidate working on the frontier of research and business. With certified AWS ML knowledge, practical experience in different ML areas and strong communication skills, I am passionate about using AI to improve decision-making. My recent projects focus on fair ML for credit scoring and DL for computer vision and NLP tasks. ♦ 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 mitigation algorithms to improve model profitability by up to 3% o benchmarked fair ML algorithms to identify methods enhancing fairness at the smallest cost o published 5 ML papers with over 60 total citations and delivered 5 conference talks [Papers] 09/2018 - 08/2020 Project-Based Data Scientist, Simply Rational, Berlin, freelance. o identified customer segments and prototyped segment prediction models from incomplete data o determined suitable treatments from A/B tests results and presented findings to corporate clients 07/2016 - 03/2018 Research Assistant, Max Planck Institute for Human Development, Berlin. benchmarked ML algorithms against simple heuristics and analyzed key performance drivers Education 04/2018 - present Ph.D. in Machine Learning, Information Systems, Humboldt University, Berlin. Research on ML for credit scoring. Teaching ML and supervising student theses. Graduation: 03/2022. 10/2015 - 12/2017 M.Sc. in Economics, Quantitative Methods, Humboldt University, Berlin, GPA: 1.30 (A). Focused on Data Science and Predictive Analytics. Thesis topic: ML for box office forecasting. 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. Diploma with Honors. Certifications 01/2022 AWS Certified Machine Learning, AWS. Training, tuning and deploying ML models on AWS. [Certificate] 06/2020 **Deep Learning Nanodegree**, *Udacity*. Implemented CNNs, RNNs and LSTMs in PyTorch. [Certificate] 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 05/2021 - 08/2021 **Text Readability Prediction.** Developed a PyTorch pipeline for text complexity prediction with transformers. Deployed a web app for scoring custom texts. Placed top-9% in the Kaggle competition. [App] [GitHub] 09/2019 - 04/2021Fairness: Package for Fair ML. Building and maintaining an R package with over 16k total downloads. Implemented calculation and visualization of fairness metrics and wrote documentation. [Blog post] [GitHub] 09/2018 - present Kaggle Master. Won 18 competition medals. Top-1% in Competitions, Notebooks and Discussion. [Profile] Selected ML Publications 06/2021 Fairness in credit scoring: Assessment, implementation and profit implications, EJOR. Benchmarked fair ML algorithms and analyzed the profit-fairness trade-off. [Paper] [GitHub] Shallow self-learning for reject inference in credit scoring, ECML PKDD. Proposed a self-training based approach for bias correction in credit scoring. [Paper] [Meetup talk] 06/2020 - present ML Blog. Publishing ML/DL tutorials and project overviews. Reached over 7k monthly page views. [Blog] Technical Stack Tools Python, R, SQL (interm) VSCode, Jupyter AWS Cloud (SageMaker, EC2) 👺 GitHub, Trello ■ Pandas, NumPy ♣ Scikit-learn, XGBoost, LightGBM Matplotlib, Seaborn Packages

Soft Skills

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

PyTorch, TensorFlow (interm)

• Rich experience of working in team projects Key skills

 Scientific mindset and strong motivation to learn Attention to detail and critical thinking

Timm, Albumentations

Huggingface

• Excellent presentation skills [Public talks]