Nikita Kozodoi

- ✉ n.kozodoi@icloud.com
- ☎ +49 176 856 35125
- ✈ Berlin, Germany
- in https://linkedin.com/in/kozodoi
- ○ https://github.com/kozodoi
- ⊕ https://kozodoi.github.io

Education

04/2018 – present	**PhD in Information Systems**, *Humboldt University*, Berlin. Doing research on machine learning applications for credit risk analytics.
10/2015 – 12/2017	**M.Sc. in Economics and Management Science**, *Humboldt University*, Berlin, GPA: 1.30. Focused on business analytics, data science and applied predictive analytics.
09/2014 – 12/2016	**M.Sc. in Economics**, *Higher School of Economics*, Moscow, GPA: 9.58 of 10 (1.21). Focused on econometrics and time series analysis. Diploma with honors.
09/2010 – 06/2014	**B.Sc. in Economics**, *Higher School of Economics*, St. Petersburg, GPA: 9.38 of 10 (1.31). Focused on econometrics and marketing. Diploma with honors.
09/2000 – 07/2010	**High School Diploma**, *High School 241*, Saint Petersburg, GPA: 1.00.

Work Experience

04/2018 – present	**Research Associate	Data Scientist**, *Monedo*, Hamburg. ○ developing solutions to mitigate the impact of sampling bias on scoring models ○ performing profit-driven feature selection with multi-objective evolutionary algorithms
07/2016 – 03/2018	**Research Assistant**, *Max Planck Institute for Human Development*, Berlin. ○ collected and prepared a large number of data sets ○ benchmarked managerial heuristics against machine learning algorithms ○ analyzed factors affecting the predictive performance
10/2014 – 12/2015	**Research Assistant**, *Institute for Statistical Studies at Higher School of Economics*, Moscow. ○ preprocessed survey data for statistical analysis ○ conducted the econometric analysis of survey data

Technical Skills

Programming	**Languages:** Python, R, SQL	**IDE:** VS Code, Jupyter, RStudio
Productivity	**Collaboration:** Git, Slack, JIRA	**Deployment:** AWS Sagemaker
Documents	**Office:** LaTeX, MS Office, Apple iWork	**References:** Endnote, Zotero

Packages	**Python:** numpy, pandas, sklearn, xgboost, lightgbm, pytorch, hyperopt, matplotlib, seaborn **R:** mlr, caret, tidyverse (dplyr, ggplot2), data.table, xgboost, lightgbm, h2o, knitr, plotly
Algorithms	**Machine Learning:** Boosting (XGB, LGB, Catboost), Tree-based (RF, DT), LR, SVM, KNN **Deep Learning:** CNN, RNN (LSTM, GRU), BERT, Autoencoders, GAN (DCGAN, CycleGAN)
Applications	**Supervised:** classification, regression, recommendation, time series **Unsupervised:** anomaly detection, clustering, dimensionality reduction **CV:** image classification, object detection, style transfer, image generation **NLP:** sentiment analysis, text generation

Awards and Achievements

2018	Obtained Kaggle Competitions Expert status (4 silver and 3 bronze medals). Highest rank: 981
2016	Prize-winner of the student research paper competition in Computer Science held by HSE
2014 – 2017	Awarded with Oxford-Russia Fund (2014/15) and E-Fellows.net (2016/17) scholarships

Certificates

06/2020	**Udacity Deep Learning Nanodegree:** building CNNs, RNNs and GANs in PyTorch
05/2020	**Udacity Machine Learning Engineer Nanodegree:** deploying ML and DL models in AWS

Software Packages

2020	**dptools**: Python package with helper functions for data preprocessing and feature engineering
2019	**fairness**: R package for computing and visualizing metrics of algorithmic fairness

Selected Competitions and Hackathons

10/2019	**IEEE-CIS Fraud Detection**: top-3% and silver medal (2-people team, 6381 teams)
02/2019	**Google Analytics Revenue Prediction**: top-2% and silver medal (2-people team, 3611 teams)
12/2018	**PLAsTiCC Astronomical Classification**: top-5% and silver medal (3-people team, 1094 teams)
08/2018	**Home Credit Default Risk**: top-4% and silver medal (solo, 7198 teams)
06/2018	**Data Science Game 2018**: top-13 and special mention award (4-people team, 128 teams)
09/2017	**Data Science Game 2017**: top-9 and special jury award (4-people team, 145 teams)

Selected Publications

04/2020	N. Kozodoi, P. Katsas, S. Lessmann, L. Moreira-Matias and K. Papakonstantinou **Shallow self-learning for reject inference in credit scoring** ECML PKDD 2019 (http://doi.org/10.1007/978-3-030-46133-1_31)
09/2019	N. Kozodoi, S. Lessmann, K. Papakonstantinou, Y. Gatsoulis and B. Baesens **A multi-objective approach for profit-driven feature selection in credit scoring** Decision Support Systems, 120 (2019), pp. 106-117 (http://doi.org/10.1016/j.dss.2019.03.011)

Languages

English	**Proficient user (C2)**	*IELTS band 8.0 certificate*
German	**Advanced user (C1)**	*Language courses at HU Berlin*
Russian	**Native speaker**	

Skills and Interests

Key Skills	○ Passionate about machine learning	○ Excellent presentation skills
	○ Strong motivation to learn and improve	○ Good at meeting deadlines
Hobbies	Football, Scootering, Piano	

Berlin, 26.06.2020