



Nikita Kozodoi

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Education

- 04/2018 – present **PhD in Information Systems**, *Humboldt University*, Berlin.
Doing research and 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 Science**, *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, pytorch, tensorflow, xgboost, lightgbm, hyperopt, matplotlib R: mlr, caret, tidyverse (dplyr, ggplot2), data.table, xgboost, h2o, glmnet, plotly, knitr	
Algorithms	ML: Boosting (XGB, LGBM, Catboost), Tree-based (RF, DT), LR, SVM, KNN DL: CNNs, RNNs (LSTM, GRU), BERT, Autoencoders, GANs (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

- 2020 Gained Kaggle Competitions Master tier with 1 gold, 4 silver and 3 bronze medals
- 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

- 07/2020 – present **dpptools:** Python package with helper functions for data preprocessing and feature engineering
- 09/2019 – present **fairness:** R package for computing and visualizing metrics of algorithmic fairness

Selected Competitions and Hackathons

- 08/2020 **SIIM-ISIC Melanoma Classification:** top-1% (5-people team, 3314 teams)
- 10/2019 **IEEE-CIS Fraud Detection:** top-3% (2-people team, 6381 teams)
- 02/2019 **Google Analytics Revenue Prediction:** top-2% (2-people team, 3611 teams)
- 12/2018 **PLAsTiCC Astronomical Classification:** top-5% (3-people team, 1094 teams)
- 08/2018 **Home Credit Default Risk:** top-4% (solo, 7198 teams)
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- 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 Proceedings, pp. 516-532 (<https://doi.org/10.1007/978-3-030-46133-1>)
- 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 (<https://doi.org/10.1016/j.dss.2019.03.011>)

Languages

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|---------|-----------------------------|--------------------------------------|
| English | Proficient user (C2) | <i>IELTS band 8.0 certificate</i> |
| German | Advanced user (C1) | <i>Language courses at HU Berlin</i> |
| Russian | Native speaker | |

Skills and Interests

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