

Nikita Kozodoi

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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.

Work Experience

04/2018 - present Research Associate | Data Scientist, Monedo, Hamburg.

o developing solutions to mitigate the impact of sampling bias on scoring models

o performing profit-driven feature selection with multi-objective evolutionary algorithms

09/2018 – 12/2019 Project-Based Data Science Consultant, Simply Rational, Berlin.

o completed data science projects for corporate clients

o worked on debtor segmentation, treatment effect estimation and validation of ML models

07/2016 - 03/2018 Research Assistant, Max Planck Institute for Human Development, Berlin.

o collected and prepared a large number of data sets

o benchmarked managerial heuristics against machine learning algorithms

o analyzed factors affecting the predictive performance

10/2014 - 12/2015 Research Assistant, Institute for Statistical Studies at Higher School of Economics, Moscow.

o preprocessed survey data for statistical analysis

o 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)

Supervised: classification, regression, recommendation, time series

Applications 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 Proceedings, pp. 516-532 (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
 - Strong motivation to learn and improve
 - Hobbies Football, Scootering, Piano

- Excellent presentation skills
- Good at meeting deadlines