Alexandr Burakov

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Education

MFTI Sep 2019 – June 2023

Bachelor of Computer Science *Moscow*

- Relevant coursework: algorithms and data structures, OOP, calculus, linear algebra, advanced graph theory
- GPA – 4.20 out of 5

Experience

Data Scientist Mar 2021 – Present

Fozzy Group *Moscow*

- Conducted research and implemented embedding models that helped with cold-start forecasting
- Reviewed and refactored project codebase, which led to much faster iteration and onboarding process
- Performed multiple feature engineering & selection cycles, leading to higher and much cleaner scores
- Participated in early-stage project evaluation: from interpreting business task as ML problem to first MVPs
- Contributed to establishing pipeline standards and documentation

Machine Learning Engineer Jan 2021 – Mar 2021

Computer Vision startup under NDA *Moscow*

- Carried out error analysis and engineered several features which lead to 15% increase in model's performance
- Developed visualization and evaluation tools that lead to a better understanding of model's error
- Optimized post-processing pipeline for real-time visualizations

Researcher Nov 2020 – May 2021

Fido.ai, NaUKMA *Moscow*

- Performed code and PR reviews
- Established question answering baseline
- Implemented LSTM model for ethnicity classification
- Made Linear Regression tutorial for newbees

Math and Computer Science tutor June 2020 – Aug 2020

Self-employed *Moscow*

- 6 students of different age (from 12 to 17)
- 100% positive feedback rate

Projects

OpenCV demos | *Python, OpenCV* Aug 2020

- Substituting sheet of paper with a honey badger image in real-time
- Detection of AruCo markers and figuring out their angles of rotation in real-time
- Telegram bot that substitutes all faces in picture with a pre-made face mask

Siamese neural network | *Python, Keras* Jan 2019

- Performed data collection and augmentation
- Implemented and trained a Siamese neural network with skip-gram technique
- Achieved 95% accuracy on predicting whether two chords are used in same context
- Published a research paper on this project

Achievements

1% of 100.000 (estimated) participants in *Junior Academy of Sciences of Ukraine* contest Mar 2019

Published a research paper on deep similarity learning of piano chords with a Siamese Neural Network Oct 2018

Skills

Programming Languages: Python, Java, SQL (Postgres, MS SQL), C++ and Haskell (beginner)
Frameworks: PyTorch (preffered), Keras, LightGBM, Dask

Tools: Anaconda, Git, Linux, Jupyter, Streamlit, MLFlow
Libraries: scientific Python kit (numpy, pandas, matplotlib, etc.), Flask
Languages: English (advanced), Russian (native)