




Konstantin Burkin


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SUMMARY: Data Scientist in tech group of the largest fastfood chain.
3+ years of production experience.
Red diploma alumnus of Lomonosov Moscow State University.

WORK EXPERIENCE

- **Middle Data Scientist** 2023 – Present • Технологii i tochka
 - Project: NLP of reviews
 - Stack: Python, ruBERT, Yandex-GPT
 - Automated suggestions for app improvement based on scrapped reviews from AppStore and PlayMarket.
 - Preselected informative reviews for each function of app and aggregated them using Yandex-GPT.
 - Project: New products sales
 - Stack: Python, PyTorch, CatBoost, Airflow, MLflow
 - Developed graph neural network model to predict sales of new products with accuracy of 50 WAPE.
 - Improved WAPE by 22% using CatBoost
 - Project: Restaurants order proposal
 - Stack: Python, PyTorch, SQL, CatBoost, SARIMA, Airflow, MLflow, Git, DVC
 - Feature engineering and tech support for models predicting regular and promo products.
 - Developed baseline model for predictions of unpopular products
- **ML researcher**  2021 – 2023 • Higher School of Economics University
 - Project: Prediction of outcomes for cardiovascular patients based on clinical data.
 - Stack: Python, Git, Bash, scikit-learn, imblearn, MLxtend, CatBoost, Pandas, NumPy
 - Demonstrated biomarkers' predictive capabilities (up to 5% AUROC increase).
 - Determined 2 primary predictors by feature selection algorithms: SHAP and FFS, retaining $F_2 > 0.6$ and $AUROC > 0.8$.
 - Published results at the conference  and earned grant support of federal academic program. 


Intern

- Medical data preprocessing, imputation, and analysis; ML model training for combined target prediction.
- Increased Recall by 9% by tuning models with respect to F_2 metric.
- Presented project results at the conference. 

EDUCATION

- **PhD program in Machine Learning** 2023 – Present • Higher School of Economics University
 - Project: Parsing unstructured medical data
- **Program: Neural networks in research** 2022 – 2023 • Lomonosov Moscow State University
 - Scholarship: top-25 based on ML competition and academic results
 - Stack: Python, PyTorch, scikit-learn, MLxtend
- **BSc & MSc in Fundamental and Applied Chemistry** 2017 – 2023 • Lomonosov Moscow State University
 - GPA: 4.97/5, Red diploma
 - Academic council Scholarship: top-10 MSU students for scientific achievements

INDIVIDUAL PROJECTS

- **Delivery Club Sales Prediction** 
 - Compared effectiveness CatBoost and LGBM models for weekly sales prognosis.
 - Compared SARIMA and LSTM for univariate time series. SARIMA outperformed LSTM in accuracy and training time.
 - Stack: Python, scikit-learn, CatBoost, Pandas, PyTorch, Pandas, NumPy, Plotly