

# Ekaterina Kasilina

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## Senior Data Scientist, EPAM SYSTEMS

09.2022-now

*P&G products demand forecasting for North American retailers (Costco, Sam's, Target etc)*

- Developed ML models for demand forecasting with LightGBM of personal care products for the largest retailers in North America which improved MAPE of promo period planing by 23% comparing to human planing.

Responsibilities:

- features engineering and features selection
- data acquisition and data quality testing
- model tuning and validation
- writing production python code for e2e model train with pyspark and lighgbm
- pipelining models' train with Databricks workflows

Tools: Databricks, pyspark, lightgbm, azure data storage, pandas, sklearn

*Out of the project activities*

- Took part in creation EPAM NLP courses
- Mentoring junior and middle level data scientists

## Senior Data Scientist & Team Lead Data, Inleksys

Apr 2017 - Aug 2022

*Developing application for data quality and anomalies detection in telecom data.*

- Developed an application for monitoring data quality and detecting anomalies in stored telecom data. This tool enhances the quality of data utilised for marketing communications. As a result, communication effectiveness surged by 15%, while complaints about poor personal offers dropped by 10%. Various models (linear regression, ensembles) and heuristics were used.

Responsibilities:

- leading ds team and the application support team (6 members in total)
- working closely with backend development team
- presenting results to stakeholders
- data exploration and feature engineering
- writing production python code for the full model lifecycle

Tools: python, sklearn, MongoDB, pandas, numpy

### *Developing voice bot for telecom call center*

- Created a voice bot using ML algorithms that covers 24% of B2C outbound calls for telecom company which allowed the company to proportionally reduce the costs of its call center.

Responsibilities:

- leading ds team (2 members)
- exploring calls scripts, collecting data
- exploring and testing various libraries for speech-to-text, text-to-speech
- developing models

Tools: python, sklearn, pandas, numpy, yonder speech kit

### **Data Analyst & Team Lead, AT Consulting**

Sep 2011 - Apr 2017

- Built an analytical datamart for telecom company using data from Hadoop and Oracle databases with PL/SQL
- Created analytical reports and presented them to stakeholders.
- Getting and cleaning data for machine learning models
- Created a data analytics team which had grown from 3 to 22 members.
- Created a SQL course in the company.
- Providing career mentorship and guidance

**Tools:** Python (pandas, sklearn, pytorch, seaborn), SQL (Oracle, Postgres), Docker, MLflow, Tableau, Hadoop, PySpark, Databricks

**ML:** EDA, linear models, ensembles (LightGBM, Catboost), NLP, time series

**Misc:** git, bash, pytest, Jira

**Languages:**

English: C1, French: A2, Russian: native

**Education:** Voronezh State University, Master Degree in Computer Science, 2010