

Ekaterina Kasilina

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As an accomplished Senior Data Scientist with over a decade of experience in machine learning I specialise in classic ml, timeseries forecasting and NLP tasks and consistently deliver high-quality products. I have designed and developed data-driven solutions that enhanced operational efficiency, improved demand forecasting, boosted customer satisfaction, and drove revenue growth for various clients, including railway companies, retailers, and telecom providers.

In addition to my technical work, I mentor data scientists and have created courses and resources for professional development.

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

Team Lead Data Scientist, 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

Team Lead Data Analyst, AT Consulting

Sep 2010 - 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