

Tatyana Babushkina

Work

Nov. 2020 – Present **Sberbank, KIB.**

Data Science, Process mining

Key projects:

- KIB HQ PM team
Project manager:
 - o Digital timing system for credit monitoring managers: setting up desktop process analytics and getting end-to-end logs for several systems, building a process graph, identification of non-optimal and bottlenecks, process redesign, cost estimation in the context of signals and making changes to the pricing model
- B2B Ecosystem HQ
AI consulting team
Data analyst:
 - o Predictive analytics service for Sber-AST on public procurement: building a model for predicting a complaint or a request for clarification on application and hint system for correct filling

Education

Sept. 2020 – Present **Moscow Institute of Physics and Technology, MIPT**, Master student, 2th year.

Department of Innovation and High Technologies

Field of study: Applied Mathematics and Physics

Specialisation: Machine Learning and Data Analysis, Banking Information Technologies ([SberTech](#))

Sept. 2016 – July. 2020 **Moscow Institute of Physics and Technology, MIPT**, Bachelor student.

Department of Control and Applied Mathematics

Field of study: Applied Mathematics and Physics

Specialisation: Computer Science, State Research Institute of Aviation Systems ([FSUE SRIAS](#))

Educational projects

Aug. 2019-July 2020 **Bachelor's thesis. Studying of reliability indicators of onboard software.**

Algorithm development for assessing the complexity of testing software modules of onboard software and getting a hybrid metric using machine learning methods. Obtaining an indirect assessment of software reliability.

Used: C, Python (numpy, pandas, matplotlib, seaborn, scikit-learn, XGBoost and etc)

Supervisor: Mikhail Okhotnikov, [FSUE SRIAS](#)

Oct-Nov. 2019 **Application of the theory of complex systems to analyze and summarize information on the cost of researching a company's fields using machine learning methods.**

Educational practice on digitalization of processing and interpretation of geological and geophysical information, [Sirius](#) & [Gazpromneft STC](#)

The algorithm for predicting the profitability of exploration work depending on the complexity of the field and the oil recovery factor in it.

Used: Python (numpy, pandas, matplotlib, seaborn, scikit-learn, XGBoost, PyTorch)

Project mentor: [Boris Belozarov](#), [Gazpromneft STC](#)

Technical skills

Scientific Libraries Python: pandas, matplotlib, seaborn, NumPy, SciPy, sberpm, scikit-learn, XGBoost, CatBoost, pymorphy2, pymystem3, nltk, optuna, SHAP, keras, PyTorch

Operating Systems MacOS, Windows, Linux (only for educational projects)

Professional software SQL, Power BI, Power Point, Jira, $\text{\LaTeX}$

Honors and awards

- 2016 – Present **Grant Recipient of the President of the Russian Federation, direction: science.**
- 2018 **Absolute winner of Hackaton for commercialization within the All-Russian student's school on nanotechnology, Sochi.**
- 2015 **3d place on IEPHO (Experimental Physics Olympiad) in the team competition of high school, Sochi.**
- 2015 **Prize-winner on All-Russian Olympiad on Technology, St. Petersburg.**
- 2013 – 2016 **Prize-winner on All-Russian Olympiad on Physics(region), Kirov.**
- 2015 – 2016 **Prize-winner of different school olympiads in physics, maths: MEPhI Nuclear University Olympiad "Rosatom", Saint-Petersburg State University olympiad, MIPT's Olympiad "Phystech".**

Extracurricular education

- Business accelerators:
- o Student accelerator [SberStudent](#) (by Sber & Stanford | Online) (finalists)
Creation a platform [Imperium](#) for measurable collaboration between bloggers and businesses
Role: data scientist, marketing specialist
 - o [Creative Industries Accelerator](#) (finalists)
Also with the platform "Imperium"
- Online Courses:
- o Python for Data Analysis (by Sberbank corporate university)
 - o [Machine learning in finance](#) (by Sberbank corporate university)
 - o [Mathematics and Python for Data Analysis](#) (by Yandex and MIPT in Coursera)
 - o [Supervised Learning](#) (by Yandex and MIPT in Coursera)
 - o [Unsupervised Learning](#) (by Yandex and MIPT in Coursera)
 - o [Basics of statistics](#) (by Bioinformatics Institute in Stepik)
 - o Neural Networks & Computer Vision (by Samsung Research Russia in Stepik)
In the progress

Languages

English Upper-Intermediate (B2)
Russian Native

Hobbies & extra activities

- Skiing, Cooking
- Mathematics tutor for schoolchildren
- Student travel organizer