Aidar Amrin

+7(747)-567-90-72 | aidaramrin@gmail.com | github.com/hzchet

EDUCATION

Higher School of Economics   Moscow, Russia
Bachelor's of Science in Applied Math and Computer Science   *Sep. 2020 – Expected June 2024*
- Current GPA: 9.19/10.0
- Merit-based scholarship, covering full tuition
- Selected to the advanced math group

PROJECTS

Data Analysis of a Game Industry   *March 2021 - Apr. 2021*
- Analyzed the patterns of a successful game by making Exploratory and Statistical Data Analysis
- Preprocessed the data by filling in missing values
- Identified the most profitable platforms and genres in the near future
- Built a portrait of a typical gamer from different regions
- Tested different hypotheses using Student's T-Test

Customer Churn Prediction   *March 2021*
- Created various Machine Learning classification models for predicting customer churn (using a dataset from MIPT DL School)
- Made a pipeline to automate preprocessing and transforming of data
- Tuned hyperparameters of CatBoostClassifier model using cross-validation
- Achieved 0.85168 ROC-AUC score in Kaggle InClass competition

MyElasticLogisticRegression   *Feb. 2021*
- Implemented Logistic Regression class that has an interface similar to LogisticRegression from scikit-learn, by using Batch Gradient Descent Optimization
- Added L_1 and L_2 regularizations (*elastic net*) to avoid problems such as overfitting and large weights of a linear model

Matrix Calculator   *Oct. 2020*
- Developed Matrix class supporting different matrix operations
- Implemented SquareMatrix class that allows to solve systems of linear equations using Gaussian elimination and raising square matrices to a nonnegative integer power

ACHIEVEMENTS AND AWARDS

International Zhautykov Olympiad in Mathematics   Almaty, Kazakhstan
Gold and Bronze medals | Top 22 out of 200+ selected participants from 20+ countries   *Jan. 2020, 2019*

Kazakhstan National Olympiad in Mathematics   *March 2019, 2020, 2018*
Gold and 2 Silver Medals | Top 3 out of 5k Kazakhstan high school students

China Western Mathematical Olympiad   Zunyi, China
Gold Medal | Top 15% among all participants. Represented the team of Kazakhstan and competed
with students from all over Asia   *Aug. 2019*

Asian Pacific Mathematics Olympiad
2nd degree diploma | Top 4-24 among 5k Kazakhstan High School Students   *Feb. 2020*

EXTRA-CURRICULAR ACTIVITIES

Symmetrix   *Aug. 2019*
Math Community of High School Students
- Contributed to the community with over 1000 users by creating a training program for beginners, which covered the most imortant topics in competitive math
- Organized and held the training olympiad for beginners by making the problem set and marking scheme

SKILLS

Languages: Python, SQL (PostgreSQL), C++
Tools and Technologies: Git, Github, Jupyter Notebook, Google Colab, LaTeX, Markdown
Libraries: pandas, NumPy, SciPy, Matplotlib, Seaborn, scikit-learn

ONLINE COURSES

- Completed Data Analytics course by Yandex.Praktikum & University 2035
- Currently studying ML/DL in the advanced group at MIPT Deep Learning School