Anna Chifranova

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Education

Russian Presidential Academy of National Economy and Public Administration June 2024
Economic Security, Speciality

Russian Presidential Academy of National Economy and Public Administration July 2023
Data analysis (Python) and databases (SQL), Professional additional education

Coursework

Courses: Linear Algebra, Econometrics, Probability & Statistics
Scientific Research Projects: "The current state of the Russian economy: Exhaustion of the export-commodity model of development", "Strong or weak ruble?", "Transnationalization of the world economy and its impact on the country's economic security", "Application of machine learning algorithms for detection and prevention of fraud".

Technical Skills

Programming: Python, SQL(Postgres)
Software & Tools: **Data Analysis**: NumPy, Pandas, Seaborn, Plotly
Machine Learning: PyTorch, Scikit-Learn
Other: Git, Google Colab, DBeaver

Projects

Customer Churn Prediction Project | *Matplotlib, Seaborn, Decision Tree, Random Forest, Gradient boosting, Grid Search*

- **Objective:** To develop and implement a project to forecast the outflow of customers for taking proactive measures to retain customers.
- Utilized data visualization libraries, including Matplotlib and Seaborn, to visually represent results and trends.
- Compared the performance of various machine learning algorithms, such as decision tree, random forest, adaptive boosting, and gradient boosting.
- Conducted grid search to determine the optimal hyperparameter combination for the model.
- Made data-driven decisions to retain customers, including offering discounts and improved terms based on the analysis results.

Fandango Ratings Analysis Project | *Matplotlib, Seaborn*

- **Objective:** To demonstrate that a website selling movie tickets may inaccurately display them due to the influence of low movie ratings. The hypothesis is that low movie ratings can lead to reduced interest in watching them, consequently decreasing motivation to purchase tickets.
- Conducted an analysis to identify the correlation between independent movie ratings (from sources like Rotten Tomatoes, Metacritic, IMDb) and movie ratings on the ticket-selling website Fandango.
- Utilized data visualization methods for a clear representation of the relationship.
- The hypothesis is confirmed: the ticket-selling website inflates the ratings of underperforming movies.

Digit Recognizer | *PyTorch, Scikit-learn, NumPy, Matplotlib, OpenCV*

- **Objective:** Developing and training a neural network for efficient recognition of handwritten digits.
- The project utilized the MNIST dataset — an extensive database containing 70,000 images of handwritten digits of uniform size.
- The project involved stages such as designing the neural network architecture, data preprocessing, and subsequent training using machine learning techniques.
- High accuracy in recognizing handwritten digits was achieved after the successful training of the network.

Also, other projects are available on my GitHub profile.