Alisa Malakhova

Academic Website, LinkedIn, Github, Kaggle

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Highly motivated and results-oriented CS student with a passion for applying machine learning, data analysis, problem-solving and mathematics to solve real-world challenges.

Skills

- **Programming Languages:** Python, C++, SQL, Java
- **Machine Learning**: Supervised Learning, Unsupervised Learning, Deep Learning
- **Programming Frameworks**: Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn
- **Data Analysis**: Data Cleaning, Feature Engineering, Exploratory Data Analysis (EDA), Data Visualization
- **Technologies**: Git, Linux
- **Soft skills**: Communication, collaboration, organization and adaptability

Projects

E-Commerce Customer Segmentation

2024

Designed and implemented a database, conducted EDA and performed K-means Clustering using RFM

- Created an SQL database, populated it using the Brazilian E-Commerce dataset
- Developed views and procedures, implemented triggers and functions
- Utilized Matplotlib and analyzed online purchasing behaviors and relationships
- Performed K-means Clustering using RFM metrics
- Determined the optimal number of clusters using the Elbow method.
- Interpreted results, plotted clusters and assigned meaningful names to them.

AI Influencer Image Classification

2024

Developed a CNN model with Accuracy Score of 0.9844

- Scraped Google Images of 6 AI Influencers
- Used openCV Cascade Classifiers to detect and crop faces
- Implemented Data Augmentation techniques to improve model robustness.
- Explored ML approach:
  - Applied feature extraction using Wawelet transform
  - Trained a Logistic Regression model with accuracy score of 0.9255
- Explored DL approach:
  - Utilized Tensorflow for data preprocessing and model building
- Created and deployed a web application

Diamond Price Prediction

2023

Developed an XGBoost model with R^2 Score of 0.9812

- Conducted EDA and handled null values
- Utilized Feature Engineering and Ordinal Encoding
- Applied Z-score Normalization for data scaling
- Employed K Fold Cross Validation for model selection
- Created and deployed a web application

Education

Jagellonian University   *2022-2025*

BSc Computer Science (currently in 2nd year)

GPA 4.58/5.0

- Relevant Courses: Probability and Statistics, Databases, Mathematical Analysis, Algorithms and Data Structures, Algebra

Machine Learning Specialization (Coursera)   *2023*

- *Studied ML concepts:* Supervised Learning, Unsupervised Learning, Recommender Systems and Reinforcement Learning

Languages: English (Fluent), Polish (Fluent), Ukrainian (Native), Russian (Native)