Ivan Listopadov

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GitHub: https://github.com/Ivan45634

Education

- **MSU, Faculty of Computational Mathematics and Cybernetics, MMF**
  Bachelor — Applied mathematics and computer science *September 2020 - June 2024*
- **HSE, Faculty of Computer Science**
  Master — Math of Machine Learning *September 2024 - June 2026*
- **Skoltech**
  Master — Data Science *September 2024 - June 2026*

Course Certificates

- **SQL for all**
  Stepik *June 2024*
- **Foundations of machine learning on graphs**
  Skoltech *November 2023*
- **Introduction to Computer Vision**
  Skoltech *September 2023*
- **Modern neural networks for natural language processing tasks**
  Skoltech *August 2023*
- **Artificial Intelligence and data analysis**
  Summer School, RAAI *July 2023*
- **Deep Python**
  VK Education *March 2023 - May 2023*

Skills Summary

- **Programming**: Python, C, C++, SQL, Bash
- **Frameworks**: NumPy, Sklearn, Pandas, Matplotlib, OpenCV, XGBoost, LightGBM, Catboost, PyTorch, Flask
- **ourses**: Linear algebra, theory of probability, mathematical statistics, optimization methods, classical ml, deep learning
- **Tools**: Git, Docker, LaTeX
- **Languages**: English (Upper-Intermediate B2), Russian (Native)

Projects

- **Web server "Ensembles for solving the regression problem"** https://github.com/Ivan45634/Task03
  Purpose of this project is to simplify the work with ensembles of algorithms for a person who has no programming skills, but who has data on which he wants to train Random Forest or Gradient Boosting.
- **Intelligent search system for people tracking** https://github.com/Ivan45634/RAAI-2023
  The project is a system to detect and track people in different scenarios with high precision. The project allows to build an application that uses a computer vision model trained to recognize people in thermal imaging mode.
- **Energy-based method for learning entropic optimal transport** https://github.com/Ivan45634/EBM-OT
  Implementation of training energy-based model algorithm for learning entropic optimal transport. Trained feed-forward neiral network to construct optimal transport plans between two distributions with experiments on different regularization parameter value.
- **Dual ensembles** https://github.com/Ivan45634/Dual-Ensembles
  Framework for learning ensembles over logical classifiers to approximate continous target.

Hackathons

- **Summer School, RAAI**: ≪Intelligent search system for detecting people≫ - 3rd place.
- **SMILES-2023, Skoltech**: ≪Neural Optimal Transport in latent space≫ - participation.