Pavel Krivitsky

Data Science | Machine Learning

Contact

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https://github.com/PKrivitsky

Education

Belarusian State University of Informatics and Radioelectronics

July 2022 - June 2026

GPA: 8.0/10; **Course**: 3rd year student

Key courses: Fundamentals of Algorithmization and Programming , Mathematical Analysis , Fundamentals of Functional Analysis and Function Theory , Probability theory and mathematical statistics

Skills

- **HARD SKILLS**
  - Python - ML, PyTorch, TensorFlow, Keras, Scikit-learn, CV, CNN
  - Data Analysis - Pandas, NumPy, SciPy
  - Data Visualization - Matplotlib, Seaborn
  - Jupyter Notebook, Google Colab, VS Code
- **MATHEMATICS**
  - Linear algebra
  - Mathematical analysis
  - Probability theory
  - Discrete mathematics
- **GIT, GITHUB, GITLAB**
- **MYSQL, POSTGRESQL, SQLITE**
- **SOFT SKILLS**
  - Communication
  - Problem Solving
  - Quick learner
  - Time management
- LANGUAGES
  - English (B1)
  - Russian (native)
  - Belarussian (native)

About Me

My studies in machine learning and specialized courses have provided me with practical experience in data processing, analysis, and algorithm development. By participating in ML competitions, I have applied theoretical knowledge in practice, mastered modern tools such as neural networks and deep learning techniques, and learned how to fine-tune models to address real-world challenges. As an aspiring ML engineer, I am committed to continuous improvement, experimenting with innovative approaches, and seeking optimal solutions to enhance the accuracy and performance of the models I develop.

Experience

Deep Learning School 2024
Educational course about Deep Learning of FAMCS MIPT

Participation in Kaggle tournaments

PET-projects on GitHub

Most Interesting of them:

- **Game of thrones prediction**
  - Pandas, NumPy, Matplotlib, Seaborn
  - Developed a machine learning model to predict the appearance of a character in future Game of Thrones installments based on previous ones.
  - Utilized classification algorithms with feature engineering, outlier removal, and hyperparameter tuning, evaluating model performance using metrics such as F1-score and ROC-AUC.
- **Skin Condition Segmentation**
  - Python, PyTorch, U-Net, SegNet
  - Developed a deep learning pipeline for skins condition segmentation using medical imaging dataset
  - Implemented and optimized U-Net and SegNet architectures, applying data augmentation and loss function tuning to improve segmentation accuracy
- **Face Recognition**
  - Python, PyTorch, CNN
  - Developed a deep lerning pipeline for face classification using the celebA-500 dataset
  - Modified the ResNet architecture for face recognition by incorporating Dropout and Batch Normalization layers and integrating embeddings to identify similar faces.

Books

Deep learning with PyTorch
Grokking Deep Learning