Pavel Krivitsky

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Education

- **July 2022 - June 2026** — Belarusian State University of Informatics and Radioelectronics
  Minsk, Belarus — GPA: 8.0/10; course: 4rd year student

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

About me

- Data Scientist with 7 months of hands-on experience in developing and deploying Machine Learning models. Skilled in data analysis, feature engineering, and applying ML/DL techniques to solve real-world problems.

Experience

IFortex

- **Machine Learning Engineer** — **April 2025 - Present**
  - Developed a Retrieval-Augmented Generation (RAG) solution for enterprise document search and automated answer generation, improving query relevance and reducing response time.
  - Delivered an automated text summarization system that streamlined content review processes, enabling faster decision-making and higher efficiency.
  - Engineered a high-performance asynchronous data processing pipeline capable of handling high volumes of concurrent requests, ensuring operational stability and scalability.

HappyAI

- **AI Specialist** — **February 2025 - April 2025**
  - Developed chatbots leveraging OpenAI API to deliver intelligent, context-aware user interactions.

Other Experience

- **Customer Default Prediction Using Machine Learning**
  Python | numpy | pandas | scikit-learn
  - **Conducted** comprehensive exploratory data analysis (EDA) on anonymized credit data to understand feature distributions, identify key predictors, and assess data imbalance.
  - **Developed** a robust data preprocessing pipeline including missing value treatment, feature cleaning, and oversampling techniques to address severe class imbalance.
  - **Built** and tuned multiple machine learning models — logistic regression, decision trees, random forests, and gradient boosting — selecting the best-performing model based on ROC-AUC metric.
- **Face Recognition and Detection System Using Deep Learning**
  Python | Pytorch | CNN
  - **Developed** a computer vision pipeline for accurate face detection and identification, combining classical OpenCV methods with convolutional neural networks (CNNs).
  - **Trained** and fine-tuned deep CNN models on a custom face dataset to achieve robust face classification and recognition performance.
  - **Delivered** a scalable solution capable of real-time face detection and identification with high accuracy.
- **Developed a local Retrieval-Augmented Generation (RAG) chatbot system**
  Python | Ollama | Pytest
  - **Implemented** a full document ingestion pipeline supporting multiple formats like PDF or Excel, including text splitting and embedding generation.
  - **Integrated** a LLM model via API to generate relevant answers based on vector similarity search.
  - **Built** command-line tools to manage documents and wrote unit tests to maintain code quality and stability.
  - Posted projects at GitHub.

Taken Courses

- Deep Learning School FAMCS MIPT

Skills

Programming Languages:	Python, SQL
Hard Skills:	Machine Learning (Classic ML, NLP), Deep Learning, Data Science, Mathematics, Data Analytics
Languages:	Russian: native, English: B1