Kirykouski **Arseniy**

Machine Learning · Data Science

Italy, Milan

+39 3516673069 | akirikowski@gmail.com | se4wer | kirykouski-arseniy

AI undergraduate with hands-on experience in machine learning, NLP, computer vision, and data analytics. Proficient in Python (pandas, NumPy, scikit-learn, PyTorch, OpenCV) and skilled at turning complex data into actionable insights. Passionate about applying AI to real-world business challenges and a consistent winner in international hackathons.

Work Experience

OmniTutoring

Remote

IB Tutor (Part-Time, Remote)

Jan. 2024 - Present

- Delivered personalized tutoring in Physics, Mathematics, and Economics for the International Baccalaureate, widely considered the most rigorous high school curriculum globally.
- On average, improved students' grades by 2 full points on the IB 7-point scale, demonstrating measurable academic impact.
- Strengthened communication and presentation skills by explaining complex concepts clearly.

Projects

Reviva

Linkedin

2024 - Ongoing

- Developed an AI-powered application for personalized post-stroke rehabilitation
- Implemented patient movement recognition using OpenCV and smartphone camera input
- Trained a model to provide real-time exercise feedback based solely on visual data
- Technologies: Python, OpenCV, PyTorch, Hugging Face, scikit-learn
- Won the Sopra Steria International Student Challenge with this project

SMP2DIAG (Symptoms to Diagnosis)

GitHub

2025

- Built an NLP classifier predicting 22 medical diagnoses from patient symptom descriptions (GretelAI dataset, 1,065 samples).
- Cleaned and structured raw text data, applying tokenization, lemmatization, and embeddings (PPMI, GloVe).
- Fine-tuned transformer models: **BERT / ClinicalBERT (97% acc, F1 = 0.97)** and **Flan-T5 (94% acc)**, outperforming classical baselines (PPMI 90%, GloVe 85%).
- Python, PyTorch, Hugging Face, scikit-learn

Bike Sharing Demand Prediction

GitHub

2025

- Developed regression models to predict bike sharing demand from weather, time, and calendar features.
- Implemented preprocessing (scaling, one-hot encoding, PCA/LDA) and trained models including **Linear/Ridge/Lasso/ElasticNet**, **Random Forest**, and **XGBoost**.
- Evaluated using MSE, RMSE, and R^2; achieved strong predictive performance with tree-based ensemble methods.
- Python, scikit-learn, XGBoost, pandas, numpy

Education

Joint Degree: University of Pavia | University of Milan | University of Milan Bicocca

Milan, Italia

B.S. in Artificial Intelligence

2023 - Present

- GPA: 27/30
- 27/30 Machine Learning & Deep learning
- 28/30 Advanced Statistics & Probability

New school, International School of Georgia

Tbilisi, Georgia

International Baccalaureate Diploma Programme

2021 - 2023

- GPA: 42/45 (top 3% of students)
- Mathematics & Physics focus

Languages

- English — Fluent (C1)
- Italian — Intermediate (B1)
- Russian — Native

Extracurricular Activity

2025	**3rd place**, out of 850, EIT Health i-Days, Developed and presented REVIVA, an AI-powered app for post-stroke rehabilitation with personalized plans and real-time feed-back.	*Madrid*
2025	**Winner**, "Biomedicine & AI" track, Bologna StartUpDays	*Bologna*
2024	**3rd place**, out of 250, EIT Health i-Days, Represented Italy at the European Finals; received mentorship from healthcare and innovation experts.	*Milan, Budapest*