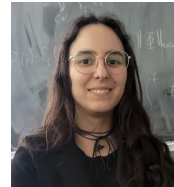


Olena Verbytska

PhD Researcher

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Profile

Passionate about applying AI to healthcare, with a solid foundation in machine learning, deep learning, and statistics. A fast learner, skilled at communicating complex ideas within interdisciplinary environments, and experienced in bridging the gap between theory and practical implementation. Ukrainian citizen with a valid work permit for France.

Research interests: deep learning, computer vision, multimodal data integration, AI for medicine.

Experience

- 11/2025 – Present **PhD Researcher**, *PhyMedExp Institute (INSERM, CNRS, University of Montpellier)*, Montpellier, France
- Conducting research on “Predicting and understanding drug-free remission in rheumatoid arthritis using longitudinal data and artificial intelligence” under the supervision of Prof. Zubeyir Salis.
- 04/2024 – 10/2024 **Data Science Intern**, *Sorbonne Center for Artificial Intelligence (SCAI)*, Paris, France
- Developed a computer vision pipeline for endometriosis detection in ultrasound videos using YOLO. Conducted a literature review and prepared the dataset. The results were presented at a conference; detailed report.
- 05/2022 – 09/2022 **Data Science Intern**, *Inria, Kopernic Team*, Paris, France
- Designed and implemented a Python class for custom Mixture Model with Expectation-Maximization (EM) algorithm. Analyzed real-time systems through probabilistic modeling. Co-authored arXiv preprint; implementation.
- 11/2021 – 04/2022 **Biostatistician Intern**, *Veranex*, Kyiv, Ukraine
- Completed training in CDISC (CDASH, SDTM, ADaM) and SAS programming for clinical trial data analysis.

Skills

Languages & Libs	Python (PyTorch, scikit-learn, numpy, pandas, matplotlib, OpenCV), R, SAS, SQL
Tools	Git, LaTeX, Canva, GIMP
Concepts	Supervised and unsupervised learning, deep learning, statistical modeling, exploratory data analysis, feature engineering, computer vision, CNNs (YOLO, Faster R-CNN)

Education

- 2022 – 2024 **Master's in Statistics and Learning, Applied Mathematics**,
Sorbonne University, France
- 2019 – 2022 **Bachelor's in Mathematics**,
Shevchenko National University of Kyiv, Ukraine

Languages

English	Advanced (C1)
French	Intermediate (B1)
Ukrainian	Native/Bilingual
Russian	Native/Bilingual