VIKTORIIA MAKOVSKA

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SUMMARY

Former engineering team lead with 3+ years in full-stack development and 4+ years managing teams, switching into applied Data Science (DS). Experienced in product ideation, architecture, and deployment. Hands-on with Ruby, Python, AWS, and PostgreSQL. Familiar with TypeScript, RabbitMQ, and Kafka. Experienced in Generative & Agentic AI, and scientific research (Ethical DS and Machine Unlearning).

TECHNICAL SKILLS

Machine Learning & AI:
PyTorch, TensorFlow, Scikit-Learn, FastAI

Generative AI & NLP:
LLMs, Open AI Agents SDK, RAG, Vector Search (FAISS, Pinecone, Milvus), Spacy

Cloud:
AWS (S3, EC2, RDS, ElastiCache)

Explainable AI & Fairness: SHAP, LIME, Fairlearn, DataSynthesizer

Databases & Storage: PostgreSQL, Elasticsearch, Redis

Programming Languages:
Ruby (Ruby on Rails), Python, JS

PROFESSIONAL EXPERIENCE

Course Instructor | Ukrainian Catholic University   **Sep 2025 - Present**
- Co-design and lecturing Natural Language Processing course

Visiting Lecturer | American University Kyiv   **Feb 2025 - Present**

- Lecturing Decision Support Systems course. Designing learning activities and matherials.

Research Fellow | Center for Responsible AI at NYU   **Sep 2024 - Present**

- Conducted research on the participatory design of entity-relationship models to mitigate biases in data-driven systems.
- Developed and tested a methodology for the participatory design of ER models (ONION).

Lead Software Engineer | Artur'In   **Nov 2019 - Jan 2024**

- Led teams of 10-12 through full software development cycles, delivering high-quality updates.
- Developed high-performance features for a platform with automatic generation of social content and automatic social media post schedulers aligned with client vertical and personal preferences.
- Mentored junior engineers, creating a structured roadmap for growth (qa, backend, and full-stack).

Software Engineer | Artur'In   **Sep 2016 - Nov 2019**

- Optimized queries and resolved performance issues to enhance platform speed.
- Managed production stability, reducing downtime and improving reliability.
- Engaged in agile practices for efficient project delivery.
- Collaborated with product owners to prioritize features, boosting customer satisfaction.
- Conducted quality assurance testing to ensure product stability and maintained documentation.

EDUCATION

PhD Student
Ukrainian Catholic University (UCU)
- Ongoing Thesis "Forgetting Machines: Responsibility by Design in Machine Unlearning".

Master's in Data Science
Ukrainian Catholic University (UCU)
- Thesis on "Vandalism or Knowledge Manipulation? Detecting Narratives in Wikipedia Edits".

Master's in Radio Engineering
Kharkiv National University of Radio Electronics
- Master's thesis in engine failure detection based on its acoustic signal.