

Mycola Kolomiiets

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Education

Taras Shevchenko National University of Kyiv , Master's degree Faculty of Computer Science and Cybernetics, Dept. of Data Science and AI <i>Focus: Computer Vision & Advanced Machine Learning</i>	Sept 2024 – June 2026
Taras Shevchenko National University of Kyiv , Bachelor's degree Faculty of Computer Science and Cybernetics, Dept. of Computational Mathematics • GPA: 89/100. Strong foundation in Statistics, Probability Theory, Numerical Methods.	Sept 2020 – June 2024

Skills

- **Core CV & ML:** OpenCV, PyTorch, TensorFlow/Keras, YOLO, CNNs, Object Tracking, RL.
- **Languages:** Python (5+ years), SQL, Bash.
- **Data Stack:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn.
- **DevOps & Tools:** Git, Docker, Linux (WSL/Ubuntu), Jupyter.
- **Math:** Linear Algebra, Calculus, Optimization Methods, Statistics.

Key Computer Vision Projects

Automated Volleyball Score Tracking System

- Developed a computer vision pipeline to track game state in real-time video footage.
- Implemented object detection algorithms to track the ball and players' positions relative to court boundaries.
- Designed logic to automatically update the score based on ball trajectory and landing coordinates.

Visual Reinforcement Learning Agent (Atari Games)

- Built a Deep Q-Network (DQN) agent capable of playing Atari games by processing raw pixel input.
- Implemented CNN-based feature extraction and frame preprocessing pipelines (grayscale conversion, resizing, frame stacking) to optimize learning.
- Utilized Gymnasium environment and PyTorch to train the agent to achieve autonomous gameplay.

Experience

Data Scientist / ML Engineer , Corezoid	Sept 2024 – Present
• Developing and deploying custom ML models to optimize specific business processes within the automation platform.	
• Integrating GenAI APIs (OpenAI, Anthropic) for automated text processing and intelligent decision-making workflows.	
• Monitoring model performance and analyzing user behavior metrics to guide product optimization.	
Research Fellow , IRIS-HEP (Princeton University / CERN)	Aug 2023 – Oct 2023
• Collaborated with international specialists on software and data science projects related to High Energy Physics.	
• Setup reproducible research environments using Docker and Python for complex data analysis tasks.	
Data Analyst , %L21UA	May 2024 – Sept 2024
• Built data pipelines and performed SQL-based data extraction to ensure data quality for reporting.	
• Automated reporting dashboards to streamline decision-making processes.	

Languages

- **English:** B2 (Upper-Intermediate) – extensive experience with technical documentation and academic content.
- **Ukrainian:** Native.