

ANDRII RAK

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LANGUAGES

Ukrainian	Native	<div style="width: 100%;"></div>
English	Proficient	<div style="width: 95%;"></div>

OBJECTIVE

Seeking to apply data analysis, machine learning, and programming skills in a practical setting. Motivated to contribute to impactful projects while developing through hands-on work and collaboration.

TECHNICAL SKILLS

- Python
- Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, OpenCV, Tensorflow
- Power BI(intermediate), Figma(intermediate)
- Strong background in deep learning applied to computer vision and NLP
- Problem-solving, teamwork, attention to detail

EDUCATION

Bachelor of Science in Applied Data Science & Artificial Intelligence
(Anticipated July 2028)

- Practice-based program focused on AI, data-driven decision-making, machine learning, and real-world applications.

PROJECTS

Emotion Classification for Ukrainian Videos – CIA (Content Intelligence Agency)

Built an emotion classification system for Ukrainian video content using automatic transcription, translation, and sentiment analysis. Implemented transformer-based models to detect emotions based on Ekman's six universal emotions framework.

Automated Root Phenotyping – NPEC (The Netherlands Plant Eco-phenotyping Centre)

Developed a computer vision pipeline for root detection and analysis using U-Net segmentation. Implemented image processing techniques including morphological operations, skeletonization, and connected component analysis. Applied robotics knowledge for precision inoculation positioning based on detected root locations.

RAG Chatbot – Marbet

Developed a Retrieval-Augmented Generation chatbot for a German event management agency to assist travelers during incentive trips. Built from scratch using Python, LangChain, and Ollama, the chatbot retrieves and presents event-specific information from internal documentation.