MYKOLA BOVAN

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EXPERIENCE

Data Scientist *OTP Bank (Ukraine)* August 2025 – Present

- Developed customer segmentation models for the High-Net-Worth Individuals (HNWI) segment, including clustering, behavioral pattern analysis, and customer value scoring used by corporate business units.
- Designed a high-performance web scraping system (asynchronous Python, checkpointing) to collect millions of external financial and registry records.
- Built ML pipelines (LightGBM, time-aware features, model monitoring) for credit risk, acquiring detection, fraud metrics, and corporate income forecasting.
- Delivered in-depth analytical insights using Python, SQL, and statistical methods that influenced strategic decisions in risk management and corporate banking.
- Optimized internal analytical processes through data preparation and reporting automation, significantly reducing manual effort for risk analysts and product managers.

PROJECTS

Make Data Count (LLM & NLP Project) *2025*

- Collaborated with a team to develop a classifier that determines whether a DOI link points to a dataset or a scientific article using embeddings and contextual features.
- Applied large language models (Qwen, GEMMA) with stacking ensembles and a logistic regression meta-classifier.
- Developed data preparation pipelines and metadata parsers for large-scale scientific text analysis.

ExoScope — NASA Space Apps Hackathon Project *2025*

- Built an interactive web platform for exoplanet exploration based on satellite data.
- Applied Fourier analysis techniques and convolutional neural networks to identify candidates for potentially habitable planets.
- The project was selected among the top submissions at the NASA Space Apps Hackathon.

Fraud Detection

- Developed fraud detection models based on XGBoost, LightGBM, and AdaBoost.
- Performed feature engineering and data visualization using Pandas and Seaborn.

- Focused on model interpretability and high performance for imbalanced datasets.

Price Prediction (ML Week)

- Built a ticket price prediction model using XGBoost.
- Implemented the architecture following OOP principles and SOLID design; used Postman and scikit-learn.

CERTIFICATES

- Make Data Count — Silver Medal (Kaggle)
- NASA Space Apps Hackathon — Challenge Award
- Computational Neuroscience (June 2024)
- The Fate of the Proggy-Buggy Contest
- INT20H Hackathon
- Brainstack DataCamp