Mariia Koval

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EDUCATION

AMHERST COLLEGE   **Amherst, MA, USA**
BA in Economics, Statistics. GPA 3.86/4.0   **2024 – 2028**

Relevant Coursework: Financial Economics, Econometrics, Data Science, Probability, Data Structures.

STOCKHOLM SCHOOL OF ECONOMICS   **Stockholm, Sweden**
Study Abroad – Finance & Economics track   **Spring 2026**

Technical skills: Python, R, Excel, SQL, Stata, Git, Java, JavaScript, React.js, Regression.
Languages: English (C2), French (C1), Ukrainian (Native), Russian (Native), Slovak (Elementary).
Interests: Amherst College Model United Nations Treasurer, Computer Science Department Teaching Assistant.

PROFESSIONAL EXPERIENCE

Amherst College   **Amherst, USA**
Financial Aid Office intern   **September 2025 – Present**

- Analyzed financial aid packages and loan structures to support student financial decision-making.
- Developed guidelines for aid calculations and international package transfers for consistency and awareness.
- Tested the financial literacy platform, providing analytical and technical recommendations to improve user engagement.

University of Tartu   **Tartu, Estonia**
Data Science and Digital Development intern   **June 2025 – August 2025**

- Analyzed large-scale microdata on Ukrainian refugees in 6 European countries using regression and machine learning.
- Automated data preprocessing and feature engineering pipelines in R for reproducibility of quantitative analysis.
- Communicated quantitative findings to a non-technical audience through written reports and media publications.
- Examined relationships between labor market outcomes and macroeconomic indicators across European economies.
- Developed React.js games with custom UI (Tailwind CSS/HTML) and interactive logic to simulate Citizens' Assemblies, Participatory Budgeting, and E-Petitions platforms for civic education purposes.

Model European Parliament (MEP)   **Bratislava, Slovakia**
President & Head of Committees   **September 2022 – June 2024**

- Organized two 4-day conferences in Bratislava for 120 participants, overseeing a team of 15.
- Secured over €10,000 from the European Parliament Liaison Office in Slovakia and companies, including Martinus and Lunter, covering 85% of event costs.
- Chaired international MEP sessions in Bratislava and Tallinn, moderating debates and guiding policy drafting.

YES! English School   **Tallinn, Estonia; Remote**
Founder   **September 2022 – August 2024**

- Grew YES! customer base to 50 students and established a team of 7 teachers and volunteers.
- Organized a 5-day English summer camp in Tallinn and 4 global online speaking clubs.

Selected Project Experience

- **High- and Low-Risk Diversified Investment Portfolio Analysis**
  Built a multi-asset portfolio using FCFF, PEG ratios, and risk-adjusted return analysis to optimize asset allocations.

- **Macroeconomic Indicators Dashboard: Growth, Labor, and Education Dynamics**
  Built dashboards to analyze macroeconomic trends over time, drawing insights on economic cycles and policy impacts.

- **Predictive Modeling of Consumer Demand in Online Retail**
  Applied logistic regression to identify drivers of purchase likelihood and understand consumer decision-making.

- **Sustainability Indicators by Country using Machine Learning**
  Used unsupervised learning, Shiny dashboards, and policy analysis to track sustainability changes since 1990.

- **Analysis of the Online Articles Virality**
  Studied article shareability with ANOVA and Kruskal-Wallis tests on textual, visual, and time features.

AWARDS AND CERTIFICATIONS

Charles Hamilton Houston Program Scholar (2025) - awarded funding for an unpaid internship in data analysis.
Mount Vernon Student of the Year Award (2022) - honored for academic excellence and community leadership.