

Ivan Evdokimov

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Experience

- AI Software Engineer (part-time)**, UK Data Service — Colchester, UK Jan 2023 — Oct 2025
- Developed end-to-end Machine Learning classification systems in scikit-learn and PyTorch for automated metadata control deployed on AWS, with Docker to ensure security and scalability.
 - Refactored the existing R program for statistical disclosure control algorithm to C++ adding bitmasks, therefore improving the runtime efficiency.
 - Developed Python applications integrating locally hosted fine-tuned LLMs using Hugging Face Transformers.
 - Assisted in creating the full-stack JavaScript React applications for internal use to update the existing systems for reading checking social sciences data sets.
- Research Officer and Laboratory Assistant**, University of Essex — Colchester, UK Sep 2022 — Dec 2022
- Applied statistical and Machine Learning regression models to solve theoretical macroeconomic problem.
 - Developed a program to simulate macroeconomic processes, written in the C programming language for speed and scalability.
 - Assisted in teaching C/C++, Data Structures & Algorithms, and Introductory Machine Learning modules at postgraduate level.
- Analyst Intern**, Beyond Borders Investment Strategies — Boston, MA, USA May 2020 — Sep 2020
- Performed quantitative analysis of exposure of international Exchange Traded Funds (ETFs) to currency and commodity prices fluctuations, using time-series analysis techniques.
 - Proposed ideas for mitigation of currency risks via financial derivatives.
 - Developed a Java application for parsing the pdf documents to the .csv format, using SpringBoot and JavaFX, automating previously manual process.

Education

- University of Essex, School of Computer Science and Electronic Engineering**, Oct 2021 — May 2025
PhD in Computational Finance
- Developed the Transfer Learning-based Bayesian Averaging framework for modeling future fundamental financial variables.
 - The project GitHub repo was forked by other open-source enthusiasts, used for further development of financial applications.
 - Created JavaScript application to interactively demonstrate the outcomes of the PhD project.
 - Led workshops on Linux, Software Development Principles and Dev Tooling.
 - Facilitated pair programming sessions with fellow PhD-students on projects in GANs, Reinforcement Learning, Genetic Programming, etc.
 - Published papers in international AI conferences and scientific journals.

- University of Essex, School of Economics**, MSc in Financial Econometrics Oct 2020 — Sep 2021
- Built a simulation to model the behaviour of banks, households, and firms under dynamic and negative interest rates in the C programming language, compiled using Clang in a Docker container for better experiments reproducibility.

Technical Skills

Languages: Python, C/C++, Java, JavaScript.

Frameworks: scikit-learn, PyTorch, Hugging Face Transformers, React.

Practices: Test Driven Development, Agile.