

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.