Ivan Evdokimov

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Experience

AI Software Engineer, 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.
- Developed the C++ code for performing the statistical disclosure control calculations using bitmasks for improving the runtime execution speed.
- Designed and programmed Python applications with locally hosted Large Language Models, which made the disclosure control process more transparent and interactive.
- 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 ML regression models to solve theoretical macroeconomic models.
- 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.
- 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.

Education

University of Essex, PhD in Computing (Computational Finance)   Oct 2021 — May 2025

- 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, 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.