# Ivan Evdokimov, Ph.D.

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## Experience

**Data Engineer**, UK Data Service — Colchester, UK — Jan 2023 — Oct 2025

- Developed end-to-end ML systems for automated metadata control and classification, deployed on AWS (Lambda, Step Functions, EFS) and Docker to ensure security and scalability.
- Worked on the development of Model Context Protocol (MCP) applications to automate data retrieval and classification pipelines.
- Designed and developed applications in Python with integrated locally hosted LLMs to ensure data integrity and security using vLLM and Ollama inference engines.
- Assisted in creating the front-end JavaScript applications for internal use.

**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 in order to demonstrate the outcomes of the PhD project.
- Led workshops on Linux, Software Development Principles and Dev Tooling.
- Led internal seminars on applications of ML techniques to finance.
- 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 to Docker for better experiments reproducability.

## Technical Skills

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

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

**Practices:** Test Driven Development, Agile.