

Ivan Evdokimov

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Experience

AI Software Engineer (part-time), UK Data Service — Colchester, UK Jan 2023 — Oct 2025

- Designed and deployed end-to-end ML classification systems in scikit-learn and PyTorch on AWS, containerized with Docker for scalability and security.
- Refactored a legacy R statistical disclosure algorithm to C++, improving runtime efficiency by introducing bitmask-based data structures.
- Developed Python applications integrating fine-tuned LLMs with Hugging Face Transformers for automated metadata control.
- Contributed to React-based full-stack tools for internal data validation and monitoring pipelines.

Research Officer and Laboratory Assistant, University of Essex — Colchester, UK Sep 2022 — Dec 2022

- Applied ML regression and statistical models to macroeconomic forecasting challenges.
- Built high-performance C simulations for economic process modeling, improving scalability and reproducibility.
- Assisted in teaching C/C++, Data Structures & Algorithms, and Introductory Machine Learning, mentoring MSc and PhD students.

Analyst Intern, Beyond Borders Investment Strategies — Boston, MA, USA May 2020 — Sep 2020

- Conducted quantitative analysis of ETF exposure to currency and commodity price risk using time-series models.
- Built a Python application to automate financial document parsing from PDF to CSV.
- Proposed risk mitigation strategies leveraging statistical analysis.

Software Engineer, Briteside Marketing Management— St.—Petersburg, Russia Jan 2013 — Oct 2018

- Built a real-time pipeline monitoring dashboard using Node.js and SQL for large gas refining company, which reported the early gas leakage and significantly reduced operational losses.
- Developed a Python-based Machine Learning backend for Mercedes-Benz Russia to estimate car retail prices from mileage, insurance history, and vehicle age, improving pricing accuracy, therefore improving profit-margin on the used cars sales.
- Engineered and maintained a Java Machine Learning system to predict railroad track deterioration, reducing accident rates through predictive maintenance scheduling.

Education

University of Essex, School of Computer Science and Electronic Engineering,

PhD in Computer Science

- Developed a Transfer Learning-based Bayesian Averaging framework for financial forecasting, with open-source adoption.
- Published peer-reviewed AI/ML papers and led workshops on Linux, Dev Tooling, and Software Engineering Principles.
- Mentored peers in GANs, Reinforcement Learning, and Genetic Programming research projects.

University of Essex, School of Economics, MSc in Econometrics

Oct 2020 — Sep 2021

- Built C-based macroeconomic simulations containerized with Docker for reproducible experiments.

Technical Skills

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

Frameworks: PyTorch, scikit-learn, Hugging Face Transformers, React, Docker, AWS, Git, CI/CD.

Practices: Agile Development, Test-Driven Development, Cloud Deployment, Infrastructure Automation.