

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.