

# Ivan Evdokimov

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## Experience

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**AI Engineer**, UK Data Archive – Colchester, UK Jan 2023 – Present

- Developed end-to-end ML systems for automated metadata control and classification, deployed via AWS (Lambda, Step Functions, EFS).
- Created a hierarchical ML pipeline utilising tree-based models (scikit-learn) with custom Feed-Forward and LSTM architectures (PyTorch) for NLP-classification tasks.
- Fine-Tuned large language models (Ollama and Gemini LLMs) using Low Rank Adaptation (LoRA), later deployed to production as part of metadata validation pipeline.
- Developed and maintained programs for metadata processing pipelines in accordance with SOLID principles in Python and C programming languages.

**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.
- 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 hedging strategies.
- Developed a program to extract textual information from the web and pdf sources.

## Education

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**University of Essex**, PhD in Computational Finance Oct 2021 – May 2025

- Developed the Transfer Learning-based Bayesian Averaging framework for modeling future fundamental financial variables.
- Led workshops on Linux, Software Development Principles and Dev Tooling.
- Led internal seminars on applications of ML techniques to finance.
- Facilitated pair programming sessions with fellow PhD-students on projects in GANs, Reinforcement Learning, Genetic Programming, etc.

**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.

## Publications

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- (In Progress) Evdokimov I., Kampouridis, M., Papastylianou, T., "Deriving Fundamental Stock Value Using Transfer Learning and Earnings-Per-Share".
- Evdokimov, I., Kampouridis, M., Papastylianou, T., "Application Of Machine Learning Algorithms to Free Cash Flows Growth Rate Estimation", International Neural Network Society Workshop on Deep Learning Innovations and Applications (INNS DLIA), Procedia Computer Science, Elsevier (2023).
- Evdokimov, I., Lungley, D., Rumiancev, A., "Survey Variables Classification with Hierarchical Machine Learning", 15th Annual European DDI User Conference (EDDI 2023).

## Technologies

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**Languages:** Python, C, JavaScript.

**Tools:** NumPy, Scikit-Learn, PyTorch, GCC, Node.

**Development:** Test Driven Development, CI/CD, Git, Agile.