Ivan Evdokimov

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Experience

Data 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).
- Worked on the development of Model Context Protocol (MCP) applications to automate data retrieval and classification pipelines.
- Fine-Tuned large language models (Ollama and Mistral LLMs) using Low Rank Adaptation (LoRA) and RAG, later deployed to production as part of metadata validation pipeline.
- Designed and developed the UI application, with integrated locally hosted LLM to aid the data curation officers workflow.

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

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

- Developed the Transfer Learning-based Bayesian Averaging framework for modeling future fundamental finanical 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

- (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

Languages: Python, C, JavaScript.

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

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