**EducaEducation**

**MSc, Economics - Pass**

The University of Birmingham

* Dissertation (75%) - Investigated the applications of machine learning to infer the causal effects of public policy using observational data. Specifically, graphical neural networks and alternative models for propensity score estimation.
* Relevant modules: Econometrics and applied econometrics,International trade policy.
* Awardeds: Home student scholarship for academic excellence.

**BSc, Mathematics & Economics - 1st**

The University of Keele

* Relevant modules: Algebra 1 & 2, Probability, partial and non-linear differential equations.

**Employment**

**Assistant Economist, Trade Modelling Unit (Gravity Modelling & Econometrics), Department of Business and Trade, Oct 22 - Present**

* Led the progression of novel analytical methodology to estimate the impact of non-tariffs barriers to trade. This Informed Computable General Equilibrium Modeling and impact assessments.
* Applied clustering algorithm to text content of free trade agreements, incorporating clusters into gravity model regressions.
* Introduced best coding practice across the R and Python codebase - developed comprehensive documentation and introduced GIT version control.

- Model Mapping : Supported exercise to map analytical models across the new department following ministry of government changes. Engaged with analytical stakeholders across the department through interviews to better understand the modeling landscape.This brief and influenced directorate level decision making on the future of the modeling unit.

- Corporate Activities: DBT Reproducible analytical pipeline champion.

* Upskilling analyst DBT analysis on the use GITby leading live workshops and presenting best coding practices at all analyst meetings.

**Assistant  Economist, Sector Analyst , Trade Promotion and Performance , Nov 22 - Oct 2023**

Government-to-Government

* Led on the Delivery of a monitoring and evaluation plan and subsequent R shiny tool for the G2G strategy in a rapidly developing policy environment.
  + This involved understanding the needs of stakeholders , their data constraints before designing a database to collect , and future proofing it to allow them to build on this.
  + Built up the data collection capabilities of the G2G strategy unit.
* Graphene Scoping
  + Expanded the evidence base for Uk graphene sector.
* Corporate Activities: Information Management
  + Co-ordinated the migration of deputy directorates sharepoint site.

**Private Math and Economics Tutor, My Tutor ,  Dec 2020 - Nov - Oct 2023**

Key achievements and responsibilities:

* Organized one to one meetings with potential clients to grow my tutoring network.
* Planned and delivered engaging economics and mathematics lessons for students of varying abilities
* Monitoring and evaluating the progress of each regularly to ensure lessons continue to meet their needs.

**Student Economist, EU-EXit and International Trade, DEFRA Sept 2019  - June 2020**

Key achievements and responsibilities:

* **Economic Consultation:** Provided economic consultation to policy teams across government and outside agencies. Drafted technical reports detailing economic forecasting and scenario analysis. This supported UK agricultural trade policy following the UK’s exit from the EU.
* **Data Automation and Optimisation :** Automated the update of 1300 time series variables within my team’s primary economic model through R. Reduced the time taken to update from c2 months to minutes.
* Developed a browser-based R shiny application to instantly compare observations across different datasets. Resulted in optimizing the workflow for analyzing and interpreting economic modeling results.
* **Econometric Modeling :**Implemented autoregressive distributed lag and error-correction models alongside on time series data to produce robust elasticity estimates for agricultural market modeling..

**Previous Skills and Experience**

**Technical Skills**

* Highly proficient R (5+ years experience)
* High proficient in python (Langchain , Numpy , Pandas , sci-kit Learn , pytorch)
* GIT, docker,

**Internal training**

* Attended the on  Focused on deploying language models at scale, and optimizing outputs through retrieval augmentation.
* Civil Service Learning - Data Masterclass : upskilled storytelling through data, considering data bias and accuracy, as well as on ethical principles and legislative frameworks around data.

**External training :**

Future Leaders Certificate Programme - Completed the 120 hours programme to develop leadership and collaboration skills  from a consulting perspective with a capstone project consulting  the BBC on increasing online engagement for Live platform.

Elected as the Keele basketball teams treasurer: Allocated and managed the clubs’ finances, organized the payment of referees and coaches; Collaborated with the team committee to allocate the clubs finances ensuring funding would have the most

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