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# Egor Howell
Data Scientist

medium.com/@egorhowell
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kaggle.com/egorphysics

## TECHNICAL SKILLS

| | |
|---|---|
| **Languages** | **Proficient**: Python and SQL<br>**Experience**: FORTRAN and LabVIEW |
| **Tech Stack** | Git, DataBricks, Bash/Zsh, Snowflake, AWS, Jupyter Notebook (Anaconda), PyCharm, LaTeX |

## EXPERIENCE

**Data Scientist**                                                                 Sept 2022 — Present
*Company Y*                                                                                *London, UK*

- Worked in a cross-functional team with Software Engineers, Analysts, and Product Managers within the Forecasting and Optimisation domains.
- Developed an ARIMAX model to forecast X, which led to ££ in annual savings.
- Improved our Y algorithm by 10% MAPE error, contributing to ££ savings due to better stock management.
- Delivered a Simulated Annealing optimisation algorithm that better-allocated stock in the supply chain, showcasing a ££ gain.
- Led the Data Science journal club, where we regularly present and discuss the latest research in the field.

**Graduate Data Scientist**                                                     Sept 2021 — Sept 2022
*Company X*                                                                                *London, UK*

- Produced a suite of CatBoost models to predict YY. I built an automated modelling pipeline in Databricks using MLflow with optimised training using Bayesian Hyperparameter Tuning (Hyperopt).
- Created a YY model through CatBoost, with demonstrated enhanced accuracy (Mean Absolute Error) compared to the existing model, with an improvement of 15%.
- Carried research and development utilising NLP Topic Modeling techniques, specifically Bertopic and LDAvis, to identify key themes within positive and negative reviews.
- Used XGBoost to forecast XX. The model was optimised through Bayesian Hyperparameter Tuning, resulting in an enhanced accuracy (RMSE) of 80% compared to the previous iteration.

**Research Scientist (Intern)**                                                 Feb 2020 — Dec 2020
*Company Z*                                                                                *London, UK*

- Conducted novel research on accurate temperature measurement by developing the Acoustic Gradiometer. This device utilised acoustics to measure air temperature gradients.
- Used NI LabVIEW coding software to collect data, autonomously designed experiments, and manually constructed and soldered acoustic circuit-like boards.

## EDUCATION

**Master of Physics (MPhys) in Physics with Nuclear Astrophysics: 1st Class (75%)**, *University of Surrey*        July 2021

### ACTIVITIES

- Active Data Science, Statistics and Machine Learning blog writer on Medium. My blog has 12,500+ followers, over 900k total views, and 135+ stories published in the last 2.5 years.
- Run a YouTube channel with 5,700+ subscribers and 180k+ views, giving advice on how to break into data science.
- Keen hockey player since 7 years old and have played for my University 1st team over my 4 years there.