

# Ross Edwards

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Portfolio: <https://rzedward.github.io/>

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## TECHNICAL SKILLS

- **Domains:** Machine Learning, Data Engineering, Data Science, Data Analysis
  - **Programming Languages:** Python, C++, R
  - **Libraries/Frameworks:** TensorFlow, PyTorch, Sci-Kit Learn, Pandas, Numpy, Matplotlib, ggplot2, Boost
  - **Databases:** PostgreSQL
  - **Data Visualisation:** Tableau, PowerBI
  - **Microsoft Office:** Excel, Word, PowerPoint
  - **Extras:** Linux, Shell-Scripting
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## EXPERIENCE

**Automation Engineer - FLIMAX Ltd (Cambridge/Remote)** **Oct 2023 - Jan 2024**

- Responsible for optimising the investment outreach process by developing scripts to automate investor database filtering and communication pipelines

**Data Analyst - Aln Valley Cottages (Northumberland)** **Jul 2023 - Oct 2023**

- Responsible for overseeing and managing customer and business data
- Produced and maintained dashboards in Tableau to provide insight on seasonal booking patterns, customer demographic breakdowns, financial performance, competitor analysis, and more

**Research Lab Assistant - University of Cambridge Department of Histopathology (Cambridge)** **Aug 2018**

- Collaborated closely with an elected fellow of the Royal Society in conducting oncological research
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## PROJECTS

**Image Recognition Algorithm - Convolutional Neural Network for Gen-1 Pokémon Classification**

- Loaded a dataset of 7000 images, applied uniform resizing, implemented augmentation, and transformed them into RGB pixel value matrices paired with one-hot encoded classification labels
- Constructed a convolutional neural network using TensorFlow, fit the model to the dataset, and returned a classification accuracy of >95%

**Agent-Based Model: The Collective Physics of Motile Cells in Complex Environments**

- Built in C++, this computer-simulated agent-based model was developed to replicate the tissue environment observed upon wound-healing, tumour invasion, and early embryogenesis
- Key focus: specific dynamics of tissue fingering upon migration or disassembly

**An Insight into London's Boroughs: Rental Market and Lifestyle**

- Tableau dashboard displaying key stats that one might consider before moving to London
  - Rental data scraped from SpareRoom
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## EDUCATION

**University of Durham** **Sep 2019 - Nov 2023**

- Master in Science in Biology and Physics within the Natural Sciences programme
  - Grade: 2:1 (with honours)
  - Completed all qualifications a year earlier than expected having been advanced through a year of school after demonstrating academic excellence
  - Notable Involvements: Data Science Society, DU Solar Car Logistics Team
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