Ross Edwards

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

Proficient in data analytics with a proven ability to transform complex data into real-world solutions across multiple domains. With experience in both management and hands-on technical roles, I am capable of synthesizing disconnected streams of information into cohesive solutions as part of a team.

SKILLS

- **Technical Domains:** Data Analytics, Data Science, Machine Learning
- **Programming Languages:** Python, C++, R
- **Libraries/Frameworks:** TensorFlow, PyTorch, Sci-Kit Learn, Pandas, Numpy, Matplotlib, BeautifulSoup
- **Databases:** PostgreSQL
- **Data Visualisation:** Tableau, PowerBI
- **Extras:** Linux environments, Shell-Scripting, SSH (PuTTY/WinSCP)

EXPERIENCE

Logistics Manager - International House London (London) **Jun 2024 - Aug 2024**

- Managed the schedule for a total of ~200 students attending an English Language summer school
- Planned and booked over 50 unique excursion tours and evening activities throughout London
- Streamlined the organisation's sharepoint documentation structure and built dynamic templates for rotas, timesheets and more in Excel
- Directed a team of 10 staff in total

Data Scientist (Internship) - 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
- Built a model to assess a potential investor's likelihood of investing in FLIMAX

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

- Produced and maintained dashboards in Tableau to provide insight on seasonal booking patterns, customer demographic breakdowns, and financial performance

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

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

PROJECTS

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

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

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

- Loaded a dataset of 7000 images and applied numerous preprocessing techniques, then transformed the processed images into RGB pixel value matrices paired with one-hot encoded classification labels
- Built a convolutional neural network using TensorFlow and returned a classification accuracy of >95%

EDUCATION

University of Durham - MSci Natural Sciences **Sep 2019 - Nov 2023**

- Master in Science in Biology and Physics within the Natural Sciences programme
- Completed all qualifications a year earlier than expected having been progressed forward a year in school after demonstrating academic excellence