

Callum Battilana

📍 Melbourne, Australia ✉ callum.battilana@bigpond.com ☎ 0444-551-698 📧 Medium in LinkedIn
🔗 GitHub

Skills

Languages **Proficient:** Python, R
Experienced: SQL, Excel

Tech Stack Jupyter Notebook (Anaconda), Pycharm, Rstudio, Git

Experience

Bureau of Meteorology | Data Scientist Intern

Jul 2025 – Oct 2025
Docklands, Melbourne

- Developed a Convolutional Neural Network machine learning model for estimating global wind patterns every hour across the globe. The technical tools used include Pandas, PyTorch, and Tensorflow.
- **The model's accuracy was 78 percent on average across all regions of the globe, while only receiving data from just 0.7 percent of the globe.** This model could **increase forecasting efficiency by 100 times** compared to traditional approaches.
- Managed over 500 Gigabytes of training data for the model. Such data was hourly global wind patterns every hour for 25 years.
- Presented my findings globally to climate researchers who were part of the APARC Reanalysis Inter-Comparison Project. Findings will be published soon in an academic journal.

Asahi (Carlton United Breweries) | Data Scientist Intern

Jul 2024 – Oct 2024
Abbotsford, Melbourne

- Used Excel VBA to develop prototypes of various charts that can forecast future issues with can seamer quality in real time using data showing the measurement specifics of can seamers over time.
- These charts **were able to diagnose problems weeks before they were found manually by the company.** If these charts were used earlier by the company, **5 million dollars would have been saved** in 2023 alone.
- Various statistical modeling techniques were used such as tests for normality, as well as t-tests and ANOVA tests. These tests validated the effectiveness of the charts.
- Worked in a cross-functional team with Engineers, Mechanical Operators, and Quality Maintenance professionals.

Education

Monash University

*Applied Data Science (Honours): **Grade Point Average: 3.281 (Distinction)***

Feb 2022 – Nov 2025
Clayton, Melbourne

Hobbies

- Write Data Science related articles on Medium.
- Keen chess player. Played in competitions at school, and I still play frequently online.
- Play viola: Joined an orchestra at University.

Volunteering

Interchange Outer East

Mar 2025 – Present
Ferntree Gully, Melbourne

- Looking after disabled people and socializing with them while going on fun activities.