

# RYAN TANG

D A T A   A N A L Y S T / D A T A   S C I E N T I S T



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

## EDUCATION

Bachelor of Computer  
Science in Data Science

*Monash University*

*Selangor, Malaysia*

2020-2022

GPA: 3.83 / 4.00

## CERTIFICATE

Google Data Analytics

Credential URL: [Link](#)

## DATA SKILLS

- Python (Pandas)
- R Programming
- Spreadsheets (Excel/Sheets)
- Tableau + Vega
- Machine Learning
- Relational Databases Design
- SQL (Oracle)
- NoSQL (MongoDB)
- Kafka + Hadoop Processes

## TECHNICAL SKILLS

- Java
- C#
- HTML + CSS
- JavaScript + Haskell
- MatLab (Image Processing)
- GitHub

## PROJECT SKILLS

- Project Management (Agile + Predictive)
- Project Libre
- Risk Management

## ADDITIONAL SKILLS

- UI + Usability Design

## WORK EXPERIENCE

Tutor Assistant (Object Oriented Design and Implementation)

*Monash University / Selangor, Malaysia / 2022-08 – 2022-11*

- Educated a group of 80 students and successfully guided them through their personal game creation in Java using Object-Oriented Programming

Data Analyst Intern

*Setel / Kuala Lumpur, Malaysia / 2021-11 – 2022-02*

Trained in using SQL in a corporate environment, to perform ad-hoc analysis for the company.

- Creation of an automated dashboard that visualises all customers' fuel usages, retention rate and fueling habits; totaling at least 5GB of data. Extraction done using SQL, cleansed with Python and visualised with Vega.
  - 8 times improvement over previous iteration – From 16 minutes load time to 2 minutes
- Organised data with SQL and BI Tool (Holistics) to create a weekly reporting system for stakeholders across a campaign that lasted 2 months. Evaluated findings and provided 4+ recommendations to stakeholders.
- Designed and maintained 14 reports and dashboards, performing regular ad-hoc analysis as required by stakeholders and manager.
- Managed 100% of company's fuel and merchandise sales, investigating anomalous data on a weekly basis. Escalating issues on unexplainable data seen throughout sales.

## PROJECTS

Is It Warmer Tomorrow? [\[GitHub Link\]](#)

*Skills: R, Machine Learning, Data Cleaning*

Produced 6 different Machine Learning Models to predict if the weather will be warmer the next day. Based on subset of Australian Dataset with 24 variables.

- Prepared 2,000 days' worth of data, fixing anomalous data.
- Evaluated results with Comparison Analysis + ROC Curve to find suited model.
- Perform hyper-parameter tuning on best suited model to achieve 74% accuracy.

Best Country to Live in [\[GitHub Link\]](#) [\[Website\]](#):

*Skills: Python (Pandas), HTML + CSS, JavaScript, Vega*

Created an interactive visualisation website that shows what countries are good to live in according to employability, literacy rate and economy.

- Performed extensive cleaning using Python, used median method to fill in missing data for countries with lacking data.
- Handled 6 data sources inclusive of geospatial data, to display world data.
- Created world-map and charts with high interactivity using Vega in JSON format.

What is a Calorie? [\[Tableau Link\]](#):

*Skills: Python (Pandas), Tableau, Data Cleaning & Visualisation*

Using sources from the internet to visualise calories in an interactive way that is understandable to the public. Allow users to explore the effects of eating a certain food and the effectiveness of 200+ exercises.

- Handled 5 different data sources, each amassing at least 1,400 rows, and cleaned them using Python to ensure data can be joined through Tableau.
- Compared the differences in average caloric consumption across the years in 5 major countries.