RYAN TANG
DATA ANALYST/DATA SCIENTIST

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EDUCATION

Bachelor of Computer Science in Data Science
Monash University
Selangor, Malaysia
2020-2022
GPA: 3.83 / 4.00

DATA SKILLS

- Python (Pandas) + R
- Tableau
- Vega
- Machine Learning
- SQL + RDBMS Design
- NoSQL (MongoDB)
- Kafka + Hadoop Processes

CODING 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 2GB 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 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.