

# CHERYL TAN

• BUSINESS INTELLIGENCE & DATA VIZ ANALYST •

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## PROFILE

I live and breathe data analytics and visualisation both on land and in water! My experience includes building Gold Standard Report dashboards for Youi insurance utilising SQL and Tableau providing a suite of benchmarking tools for the business.

I thrive working across different sectors with past experience as an AI engineer intern at Blackbook.ai, as a reef survey diver collecting data on species abundance, photogrammetry for habitat mapping and in the health and genetics field as a scientist.

I value lifelong learning, love a good challenge and am passionate about transforming data-driven insights into practical solutions.

## TOOLKIT

**Languages:**

SQL | Python | R

**Dashboarding:**

Tableau | PowerBI

**Interests:**

APIs | Fastai

## RELEVANT EXPERIENCE

**June 2021** Youi Pty Ltd - Data Analytics Team

**-Dec 2021** Business Intelligence & Data Visualisation Analyst

- Tools: Tableau, T-SQL/ SQLServer, MIS reporting, Visual Studio. SSRS , SSMS
- Projects team: I collaborate with a diverse range of stakeholders and deliver Gold Standard Reporting dashboards reporting key metrics that provides a holistic benchmarking tool to maintain or improve company revenue, staff wellbeing and customer satisfaction.
- BAU(Business As Usual) team: Adding filters to MIS reports, modifying Stored Procedures and creating new dashboards that identify key patterns influencing performance metrics.

**Jan 2021** General Assembly Australia

**-Mar 2021** Data Analytics Student

- Tools : Excel, PostgreSQL/SQLite, Python, Tableau, PowerBI
- Capstone Project involved ETL and Data Visualisation :
  - > Utilised Melbourne City Council's API to access car park sensor data -> cleaned data in Pandas(Python) > Built a self-serve dashboard( Tableau) showing customer segmentation and seasonal patterns
- See [Projects](#) here

**Dec 2020** COVID 19 Critical Care Consortium - UQ

**- Jan 2021** Technical Research Officer ( Database)

- Data quality checks and cleaning of global ICU patient datasets on REDcap databases
- Liased with clinicians, hospitals and managers to ensure missing or incorrect patient data is rectified for statisticians prior to data analysis
- Generate data tables for scientific publications

Oct 2020     **Blackbook.ai**

- Dec 2020     **AI Engineer Intern**

- UiPath RPA (Robotics Process Automation) for generating yearly reports and calculating client security hash
- Developed a test Python resource library for internal staff by creating packages in PyPi
- Image classification project for downstream industry applications
  - Deployed pre-trained TF model served via Flask API and containerised in Docker
- Documented data for Brisbane City Council Parking Project using Sphinx

## EDUCATION

2021 • General Assembly Australia

**Certificate in Data Analytics**

2020 • TAFE Queensland

**HLT 37415 Certificate III in Pathology Assistance**

2012-2014 • The University of Queensland

**Bachelor of Marine Science (Honours)**

**Research Projects:**

- Invertebrates of the Coral Sea
- Development of a Multi Locus Sequence Typing (MLST) Scheme for *S. iniae*

Apr 2009 - Apr 2011 • Ngee Ann Polytechnic (Singapore)

**Diploma in Molecular Biotechnology &**

**Diploma Plus Certificate in Japanese**

- Molecular biology and diagnostics (PCR, DNA sequencing, ELISA, FISH, microscopy)
- Analytical, organic, inorganic chemistry (HPLC, GC/MS)
- Final year internship project: Microsatellite genotyping of *Cherax quadricarinatus*
- Awarded Director's List for Diploma in Molecular Biotechnology

## FEATURED PROJECTS

### COVID-19 Twitter Sentiment Analysis

- **Goal:** A visually pleasing analysis of sentiments with a personal interest in seeing a time series analysis of sentiment - word relationship over the last 2 years
- Tools: Web APIs, Python(ipynb, pandas, etc), PostgreSQL

### COVID-19 Interactive Dashboard

- **Goal:** Demonstrate versatility of an interactive COVID19 dashboard with potential for further expansion as a decision making tool for clinicians.
- Tools: Web APIs, Tableau, Excel, Python

### **Efficiency of 4 approaches to an Image Classification Model (TF/ ResNet50).**

- **Goal:** To compare the accuracy and efficiency of the top 4 pre-trained models for image classification
  - Deployed ResNet50 for image classification served on Flask API
  - Tools: Python, ResNet50, TF, FlaskAPI
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