


ENOCH LOY

D A T A S C I E N T I S T

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 <https://enochloy.github.io/>

PROFILE

Data scientist with a record of consistently delivering exceptional models within tight timeframes. Drawing from a pharmacy background, I am deeply committed to lifelong learning and bring invaluable skills in effective communication, problem-solving, and adaptability.

SKILLS

- Python
- Machine Learning
- Scikit-learn
- Extract, transform, load (ETL)
- Tensorflow
- Keras
- Natural Language Processing
- Matplotlib
- Seaborn
- SQL
- Docker
- Data Analysis
- Tableau
- Dashboard
- HTML
- Spark
- Communication
- Detail-oriented
- Problem Solving

PROJECTS

- Skin Disease Classification using Computer Vision**
 - Developed a robust image classification model using **deep learning** techniques to **classify five prevalent skin conditions** in Singapore.
 - The model was trained on over **3000 medical images**, achieving exceptional test accuracy, recall, and f1-scores of **above 90%**.
 - Tools used: Python, Tensorflow, Keras, Convolution Neural Networks, Transfer Learning, Deep Learning, Grad-CAM, Docker
- Natural Language Processing and Social Media Classification**
 - Used **web scraping** and **NLP techniques** to collect and analyze a dataset comprising of over 2000 user posts from Keto and Paleo subreddits.
 - Developed a **binary classifier** and achieved **94% model accuracy** in predicting subreddit based on user post content.
 - Tools used: NLP, Web-Scraping, API, Logistic Regression, MultinomialNB, BernoulliNB, GaussianNB, K-Nearest-Neighbors
- COVID-19 Data Analysis and Visualization**
 - **Cleaned, transformed and integrated** complex COVID-19 datasets containing over 300,000 rows and 60 columns.
 - **Wrote complex SQL queries** to generate insights at global, continental and country levels. Utilized **Tableau for visualization and dashboarding**.
 - Tools used: SQL, MySQL, ETL, Data Cleaning, Data Visualization, Tableau, Interactive Dashboard, Data Analysis, Geospatial Analysis

EDUCATION

- DATA SCIENCE IMMERSIVE, GENERAL ASSEMBLY**

May 2023 - Aug 2023
- NATIONAL UNIVERSITY OF SINGAPORE**

Bachelor of Pharmacy (Honours)

Aug 2016 - Jun 2020

 - CAP 4.92
 - Dean's list for all semesters

WORK EXPERIENCES

- PHARMACIST**

KK Women's and Children's Hospital

Apr 2021 - Apr 2023

 - Established the pharmacy-led rheumatology service, which include specialised counselling, creating tailored educational materials and optimizing medication use.
 - Achieved desired patient outcomes through a daily individual workload of approximately 60 prescriptions.