ENOCH LOY

DATA SCIENTIST

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https://github.com/enochloy

PROFILE

Aspiring data scientist who previously worked as a hospital pharmacist. As a strong advocate of lifelong learning, I self-studied programming and data science before deciding to enter a data science bootcamp. I am eager to apply my foundation in scientific research, attention to detail, and passion for extracting insights and generating predictions to real-world problems.

SKILLS

- Python
- Machine Learning (Scikit-learn)
- Tensorflow
- Keras
- Natural Language Processing
- Matplotlib
- Seaborn
- SQL
- Docker
- Data Analysis
- Statistics
- Communication
- Detail-oriented
- Problem Solving

PROJECTS

Skin Disease Classification using Computer Vision

- Developed a robust image classification model using deep learning techniques to predict the presence of 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: Tensorflow, Keras, Convolution Neural Networks, Transfer Learning, Deep Learning, Grad-CAM

Natural Language Processing and Social Media Classification

- Utilized 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, Logistic Regression, MultinomialNB, BernoulliNB, GaussianNB, K-Nearest-Neighbors

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 4 consecutive 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.