

Addison Chew Jun Wei

Mobile: 9840 1682 | Email: addison_chew@outlook.com

Github Link: <https://github.com/AddChew/cs50x.git>

SUMMARY

A self-driven and adaptable individual, with experience working on data science and machine learning projects in the private and public sector. Possesses working knowledge of Python and its associated data science libraries such as Pandas, Scikit-Learn and PyTorch. Seeking to pursue a career in the field of data science and machine learning.

SKILLS

- Proficient with Python 3, JavaScript (ES6), PyTorch and SQL
- Problem Solving, Project Management, Teamwork and Leadership
- Fluent in English and Mandarin

EXPERIENCE

Immigration and Checkpoints Authority (ICA)

Data Analyst – Information Management Division

Singapore

Jan 21 to Feb 22

- Supported data requests from across government agencies, by writing SAS programs to query relational databases
- Collaborated with a cross-functional team of 7 members to audit ICA's annual statistics and provide recommendations on how to improve its data management
- Conducted knowledge sharing sessions for the department on the use of Python for text analytics to bolster its data analytics capabilities
- Trained a text classifier using Transformers library in Python to automate the tagging of employee feedback based on their sentiments. Deployed the model via a web application on Heroku platform with Tensorflow.js, HTML, JavaScript, and CSS
- Implemented a topic modelling library in Python to streamline the extraction of key topics from unstructured text. Reduced the number of man-hours spent on the analysis of customer feedback by more than 90%. Deployed the library as a desktop application using Flask and PySide2 libraries in Python
- Employed the use of fuzzy string matching and rule-based algorithms in JavaScript to tag death causes to their respective ICD-10 codes. Solution is deployed as a web application and used during monthly audit checks to flag up miscoded death causes. Increased the work efficiency of the audit checks by more than 95%
- Devised a pipeline to extract, preprocess and assign ICA feedback emails to their respective follow-up work units using PyWin32 library in Python. Trained the email classifier with SentenceTransformers and Scikit-Learn libraries in Python
- Built a web scraper using Selenium library in Python to automate the extraction of Facebook and YouTube comments from ICA recruitment videos for analysis. Decreased the time required to extract the comments by more than 90%

Pensees Pte Ltd

Artificial Intelligence Intern

Singapore

Sept 20 to Dec 20

- Developed computer vision models in Pytorch, for facial emotion recognition and pedestrian attribute recognition
- Built a Telegram bot using Python, that enabled the user to monitor and control deep learning experiments from his mobile

Sunfield Global Pte Ltd

Data and Research Intern

Singapore

May 19 to Sept 19

- Automated routine market reports/dashboards creation, data extraction and processing with VBA macros. Shortened the average time required to perform each of these tasks by 90%
- Analysed the prices and production of edible oils with Analysis ToolPak in Excel, to forecast future oil production and consumption

EDUCATION

Singapore University of Technology and Design (SUTD)

• Bachelor of Engineering (Engineering Systems and Design), Honours

Singapore

May 17 to Aug 20

- Major in Business Analytics and Operations Research, Minor in Information Systems
- GPA 4.42/5.00, Magna Cum Laude, SUTD Merit Scholarship Holder
- Honours List for Senior, Junior, Sophomore and Freshmore Years