Data Analyst / Data Engineer / Business Intelligence Analyst

TING-CHUN CHEN

2-YEAR PSW (GRADUATE) VISA, NO SPONSOR REQUIRED, IMMEDIATELY AVAILABLE

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Skills

- Python (Pandas, NumPy, SciPy, sklearn, PySpark, Beautiful Soup, Requests, NLTK, gensim)
- Excel (Conditional Formatting, Data Simulation, Pivot Tables)
- R programming (R Markdown, ggplot2, dplyr, glmnet)
- Microsoft Azure (DataBricks), MySQL, PHP
- Jupyter Notebook, Google Colab, Git

Projects

NATURE LANGUAGE PROCESSING FOR FINTECH LITERATURE - Personal Project - Nottingham, UK

July-Sep 2023

- Construct a fintech-related scientific articles database and extract plain texts from PDFs with Python
- Perform and compare several word embedding methods to fintech literature with Python NLTK toolkit

IMBALANCING DATA PREPROCESSING IN BIGDATA APPROACHES – Group Project – Nottingham, UK

April 2023

- Utilized PySpark and DataBricks to fix incorrect formatting, remove incomplete data and create secondary features
- Implemented nearest neighbor based algorithms (SMOTE and ENN) to balance data quantities in a PySpark approach
- Evaluated the preprocess with prediction accuracy metrics of several benchmark classification models

TRAFFIC INCIDENCE MANAGEMENT SYSTEM - Personal Project - Nottingham, UK

Dec 2022

- Created a web UI to register, edit and query for traffic incidence, create officer accounts and manage audit trails
- Utilized PHP to access to MySQL database to add, edit and query traffic incidence records

CALCIFICATION CORONARY ARTERIES PREDICTION – collaboration project – Taiwan

Nov 2021 - July 2022

- Performed missing data imputation, text data embedding and data standardization with Excel and Python
- Evaluated models and analyzed the performance in prediction accuracies, model complexity and time-consuming
- Collaborated with Changhua Christian Hospital by meeting once a month

<u>LIVER CANCER RECURRENCE AND SURVIVAL PREDICTION</u> – collaboration project – Taiwan

Jul 2019 - Jun 2021

- Data preprocessing, model training and performance evaluation as the above project
- Extracted features from medical images with MATLAB
- Published a journal paper and collaborated with Taipei Veterans General Hospital by meeting once a month

Work Experience

DATA ENGINEERING RESEARCH ASSOCIATE - Intelligent Computational Lab, NCTU - Taiwan

2019-2022

- Constructed prediction model for medical prognosis with numerical or image data and communicated with leading hospitals
- Imported domain knowledge and applied cohort study, hypothesis test and independent test to diverse data
- Built automatic data processing and report generation scripts which reduced manual processing time by 90%
- Practically applied the Liver Cancer Treatment Decision Support System to the gastrointestinal surgery clinic in VGH Taipei

Publication

Lee, I., Huang, J. Y., Chen, T. C., Yen, C. H., Chiu, N. C., Hwang, H. E., ... & Huang, Y. H. (2021). Evolutionary learning-derived clinical-radiomic models for predicting early recurrence of hepatocellular carcinoma after resection. Liver Cancer, 10(6), 572-582.

Education

MASTER OF SCIENCE IN DATA SCIENCE – University of Nottingham –Nottingham, UK Majors: Data Analysis, Natural Language Processing and Big Data Processing

September 2023

MASTER OF SCIENCE IN BIOINFORMATICS – National Yang Ming Chiao Tung University – Taiwan

November 2021

Majors: Machine Learning, Model Optimization and Data Mining