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)
- R (R Markdown, ggplot2, dplyr, glmnet), MATLAB
- MySQL, HTML, CSS, JS, C++, Linux

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
- Prototype for a citation sentence fintech article matching system

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
- Implemented audit trail, user account management and login control and front-end design by HTML, CSS, JS

UNO GAME IMPLEMENTATION IN PYGAME - Group Project - Nottingham, UK

Dec 2022

- Created a UNO game with Pygame in an object oriented approach
- Implemented complete rules of UNO, multi-player mode and 3 difficulty levels of AI player

MEDICAL-AI ETL, MODELING AND PREDICTION – Collaboration project – Taiwan

Jul 2019 - Jun 2022

- Performed data preprocessing with Excel and Python and extracted features from medical images with MATLAB
- Evaluated models and analyzed the performance in prediction accuracies, model complexity and time-consuming
- Collaborated with Taipei Veterans General Hospital and Changhua Christian Hospital by meeting twice a month

Work Experience

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

2019-2022

- Built automatic data processing and report generation scripts which reduced manual processing time by 90%
- Constructed prediction model for medical prognosis with numerical or image data and communicated with leading hospitals
- Prepared materials and trained the newcomers with machine learning, optimization algorithms and data processing knowledge
- 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

September 2023

Majors: Data Analysis, Natural Language Processing and Big Data Processing

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

Majors: Machine Learning, Model Optimization and Data Mining

November 2021