CING-FANG ANDREA SHIH

+886983029728
andreashih.com
cfshih97@gmail.com

EXPERIENCE

Data Scientist, Wistron Corporation   2022.09 - present
- Developed a machine learning model that increased accuracy by over 90% and halved task completion time within the supply chain domain
- Collaborated with engineers to create an end-to-end data solution using Docker for containerization and PostgreSQL for database management
- Provided strategic business insights through demand forecasting, data analytics, and visualization using Python and R
- Improved automated PCB placement performance via optimization algorithms

Tools: Python (pandas, matplotlib, seaborn), R (tidyverse, ggplot2), Docker, Microsoft Azure, Git

Backend Engineering Intern, Delta Electronics   2021.07 - 2021.08
- Boosted data migration efficiency by 80% via the transformation of video watch time arrays to bitmaps
- Enabled data migration from PostgreSQL to MongoDB using Python and Apache Nifi
- Managed and manipulated structured data from relational databases using SQL

Tools: SQL, PostgreSQL, MongoDB, Apache Nifi, Python (pandas, sycopg2, PyMongo), Git

PRESENTATION & COLLABORATION

Chat with ChatGPT: How NLP is Changing Our Interaction with the World | bit.ly/20230427_nsysu_nlp
- Collaborated with professors from the Departments of Foreign Languages and Literature, and Applied Mathematics at National Sun Yat-sen University (NSYSU)

Guidelines for the Use of Generative Artificial Intelligence (AI) Tools | [bit.ly/43MgG1S](bit.ly/43MgG1S)
- Formulated AI guidelines for NSYSU professors and students

EDUCATION

National Taiwan University
M.A. in Linguistics (Computational Linguistics) *GPA 4.18/4.3*   2019.09 - 2022.08
- Master's thesis: Semantic Classification of Mandarin Chinese Constructions
  - Developed a GPU-accelerated semantic classification model using BERT
  - Evaluated and visualized the attraction between words and phrases with statistical analysis
- Teaching assistant for Introduction to Programming for Data Science
- Research Assistant for the NLP sentiment analysis project with Chunghwa Telecom
- Lecturer of Hands-on Corpus Linguistics Workshop, focusing on keyword extraction from social media posts using Python

Tools: PyTorch, Python (scikit-learn, pandas, matplotlib, seaborn), R (tidyverse, ggplot2), Git

National Sun Yat-sen University
B.A. in Foreign Languages and Literature *GPA 4.10/4.3*   2015.09 - 2019.06
- Distinguished Undergraduate Award
- College Student Research Creativity Award, Ministry of Science and Technology