HUNG Kuo Chen | Mobile No.: 8770 7598 | Email: teresahung16@gmail.com | LinkedIn

EDUCATION

Nanyang Technological University (NTU), Singapore Aug 2021 – May 2025
Bachelor of Computing (Hons) in Data Science and Artificial Intelligence (DSAI)

- Honours (Distinction) | CGPA: 4.20/5.00 | Minor Study: Business
- Relevant Modules: (1) Statistics (2) Introduction to Databases (3) Software Engineering (4) Machine Learning (5) Neural Networks & Deep Learning (6) Natural Language Processing

ACHIEVEMENTS | AWARDS

- **Top 5% out of 496 participants, WorldQuant BRAIN Alphathon 2023** Sep 2023
- **Finalist, AWS Aifinity2023** Feb 2023 – Mar 2023
- **1st Runner Up Idea Award, Chat-bots for Mental Health 2022, Terra AI** Sep 2023

SKILLS

Languages: Proficient in English and Mandarin
Programming: Python, PyTorch, TensorFlow, scikit-learn, SQL , Linux, R, C, C++, Java, HTML, CSS, JavaScript, Git
Software Applications: AWS, Tableau, SQL Server, Firebase, Jupyter Notebook, Flutter, Figma, Microsoft Office
Certification: AWS Certified Cloud Practitioner, Google Advanced Data Analytics

WORK EXPERIENCE

Desay SV Singapore Pte Ltd. Jan 2024 – Nov 2024
Algorithm Engineer Intern (Perception Team)

- Fine-tuned a road topology prediction model on large-scale dataset OpenLane-V2 (2.1M+ annotated instances), achieving an 8.3% improvement in benchmark metrics over 3 months
- Developed and trained a multitask perception system integrating topology prediction, land detection and traffic elements recognition using distributed training (PyTorch DDP) in a Unix-based environment (Ubuntu)
- Performed model inference on internal datasets using Python, PyTorch and open-source tools (e.g. OpenCV, MMDetection3D), generating visualizations to support analysis and decision-making

PROJECT

NTU-DSAI Module: Machine Learning Sep 2023 – Nov 2023
Module Project – Prediction of Pawpularity Score for Pet Photos (Team of 5 members)

- Developed a deep learning model to predict pet popularity score using image embeddings and metadata, achieving private score (RMSE) of 17.09 (top 7.5%) on Kaggle's "Pawpularity Contest" (9.9k+ images)
- Improved model performance and generalization through transfer learning, model ensembling, data augmentation, and hyperparameter tuning in Python (TensorFlow, scikit-learn)

NTU-DSAI Module: Introduction to Databases Feb 2023 – Apr 2023
Module Project – Implementation of Database for Book and Magazine Supplier (Team of 6 members)

- Designed and implemented relational database schemas (3NF) for e-commerce supplier and conducted data profiling to ensure data quality for analytics
- Structured and optimized SQL queries in MS SQL Server to extract, transform, and analyze customer purchasing patterns and sales trends

NTU-DSAI Module: Data Science and Artificial Intelligence Mar 2022 – May 2022
Module Project – Analysis of IBM HR Analytics Employee Attrition and Performance (Team of 3 members)

- Built predictive models on employee attrition (Random Forest, Logistic Regression, DNN) using scikit-learn and PyTorch, achieving 85.7% test accuracy on IBM HR attrition dataset (1.4k+ records)
- Performed end-to-end analysis in Jupyter Notebook with Python (NumPy, Pandas, Matplotlib, Seaborn), applying data storytelling techniques to communicate key attrition drivers and actionable insights

LEADERSHIP EXPERIENCE | CO-CURRICULAR ACTIVITIES

CCDS Transition and Orientation Programme 2023, Honorary General Secretary Sep 2022 – Aug 2023