

Wang Yanbao

Email: yanbao_wang@mymail.sutd.edu.sg Mobile: 84019164
LinkedIn: <https://www.linkedin.com/in/yanbao-wang-23ba681b2/>
GitHub: <https://github.com/wangyanbao666>

EDUCATION

Singapore University of Technology and Design (SUTD)

- Bachelor of Engineering (Computer Science Design), Honours
- Focus Track: Artificial Intelligence
- GPA: 4.71/5
- Expected Date of Graduation: August 2024

Singapore
May 2020 to Present

WORK EXPERIENCES

Harvest Fund, AI Intern

June 2021 to August 2021

- Read reports from J.P. Morgan to learn new technologies about how to use natural language processing to analyze the trends of stock market with descriptions from financial analysts and realize the technology using python.
- Perform data preprocessing job on large corpus of sentences from financial analysts such as segmenting the sentences and splitting the dataset based on their releasing time and company information to prepare the datasets for usage.
- Using umap + hdbscan to cluster the sentences based on which topic or industry it represents and use Bert model to perform the natural language processing task to see which industry was popular during the past few years. Visualize the trend and pass the results to the mentor to perform further analysis.

Lawify, AI Developer part time

January 2022 to April 2022

- Develop a model for generating answers to some questions given a contract to release lawyers from this tedious work by retraining Roberta-base model with our own dataset using AWS SageMaker and achieve a precision of more than 90%.
- Create a large dataset which includes more than 1000 documents each with 40 questions and corresponding answers. Preprocess the text by kicking off the weird characters from the raw text generated by pdfplumber to ensure the text is in a trainable format.
- Embed the model to a web application by wrapping the answers generated to a json format and posting the data to an API for display.

ACADEMIC PROJECTS

Singapore University of Technology and Design

ICU Number Prediction Under Covid Situation, project leader

Singapore
October 2021

- Collect relevant data from different resources and visualize the data with charts to find possible factors that affect Covid death rate.
- Build a model to predict how the ICU number changes from with respect to those factors. Improve the performance of the model by transforming the data to logarithm or square of them respectively and achieve a low root mean square error.

Singapore University of Technology and Design

Agent-based Modelling of Canteen "Chope" Phenomenon

Singapore
September 2020 to November 2020

- Use two models to analyze the average time spent in a canteen of each diner to and justify the action pf Chope. The models simulate the whole process of actions of a diner after coming into a canteen under different canteen capacity and Chope-ing rate.
- Visualize the results with plot charts and the process with animated charts to make other reasonable analysis.

Singapore University of Technology and Design

"Pick Before Go" – Android App Design

Singapore
January 2022 to April 2022

- Use java and xml to design an Android app to improve user experience of purchasing at a shop in our university with attractive UI and convenient features such as clear display of discount information, whether a product is in stock to facilitate buying experience.
- Connect the app with firebase for updating and retrieving data at real time to facilitate the updating of products in the shop.

CO-CURRICULAR ACTIVITIES

Guitar Club

President

Singapore
May 2020 to present

- Organize regularly weekly training session and perform during lunch time performance in the university.
- Collaborate with SUTD bands to hold sharing sessions and teach basic skills of guitar fingerstyle.

IES Club

Project Manager

Singapore
May 2020 to present

- Hold a machine learning and quantum machine learning workshop series (5 lessons) and be an instructor in charge of the quantum machine learning part in which more than 100 people attended.
- Hold an algorithm competition and teach common algorithm problem solving skills in SUTD family to prepare the first-year students for future algorithm learning. More than 30 peopleshowed up in that event.

ADDITIONAL INFORMATION

- Tech skills: Python, SQL, Excel, Java, JavaScript, HTML, CSS, TensorFlow, machine learning, Alchitry AU
- Senior Middle 2 Scholarship holder
- Language proficiency: English written and spoken (Fluent), Mandarin written and spoken (Native)
- Guitar fingerstyle player