GERALD HO SHAO XIAN

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EDUCATION

National University of Singapore   **Aug 2021 – Present**
Bachelor of Science in Business Analytics (Honours) GPA 4.86 / 5.0
- Minor Study: Statistics
- Specialisation: **Machine Learning-Based Analytics**
- Overseas Exposure: Student Exchange Programme to University of British Columbia (Ongoing)
- Awards: (1) NUS Global Merit Scholarship (2) AY 21/22 Semester 1 Dean's List (3) Top Students for Ethics in Computing (4) Top Students for Data Management and Visualisation (5) Distinction in Analytics Techniques

WORK EXPERIENCE

National University of Singapore   **Aug 2022 – Apr 2023**
Teaching Assistant - CS1010S Programming Methodology
- Conducted weekly tutorial classes on fundamental programming concepts for 12 students
- Received positive feedback with 4.6/5.0 rating and 50% teaching award nominations

PROJECTS

Fit for the Job?   **Jan 2023 – Apr 2023**
- Trained 7 classification models on a web scraped job description dataset to predict job categories of resumes
- Optimised models using hyperparameter tuning to achieve classification accuracy of above 90%
- Performed web scraping from indeed.com to obtain more than 3000 job descriptions of 8 different job categories
- Tech Stack: Python, Selenium, scikit-learn, Tensorflow

GYMMBUDDY   **Jan 2023 – Apr 2023**
- Developed a full-stack web application for clients to monitor their fitness progress, book gym sessions and configure their workout routines
- Created interfaces for clients to sign in and out to ensure user authentication and application security
- Worked cohesively in an Agile development environment using Scrum methodologies
- Tech Stack: HTML, CSS, JavaScript, Vue.js, Firebase

Part of Speech Tagger   **Jan 2023 – Apr 2023**
- Built a Part of Speech Tagger with maximum likelihood estimation and hidden Markov models to understand common natural language processing tools and libraries
- Utilised dynamic programming methods to improve the accuracy and speed of tagging
- Tech Stack: Python

Credit Defaulter   **Jan 2023 – Apr 2023**
- Trained 5 classification models on a credit card default dataset to predict if a client would default on their credit bills
- Incorporated feature selection and data balancing methods to achieve higher prediction accuracy and generalisability
- Tech Stack: Python, scikit-learn, Tensorflow

SKILLS

- **Languages**: Fluent in English and Chinese (Mandarin)
- **Programming Languages**: C#, Java, JavaScript, CSS, HTML, Python, SQL, MATLAB, R
- **Software Frameworks**: Django, Vue.js, Vuetify, Tensorflow, scikit-learn, Unity
- **Software Applications:** MongoDB, Firebase, Tableau, Microsoft Office, MySQL, RStudio

LEADERSHIP / CO-CURRICULAR ACTIVITIES

NUS Community Service Club, Grant A Wish XIX   **Feb 2022 – Aug 2022**
Logistics and Marketing Assistant
- Recruited volunteers to donate gifts and grant the wishes of 60 less privileged children
- Collaborated with committee members to organise games and performances
- Procured sponsorships from 16 companies to obtain food and necessities for event goodie bags