LIM JING KAI JOEL

Phone: +65 9046 4247   Email: limjingkaijoel@gmail.com   Commitment: May – July 2024

EDUCATION

Singapore Management University (Major in Computer Science)
- GPA: 4.0 / 4.0
- Recipient of the Global Impact Scholarship Award, SMU's premier flagship scholarship
- Java, Python, C, PostgreSQL, data science / machine learning

NUS High School
Diploma (High Distinction, Graduation CAP: 4.8)
- Honours in Mathematics (GPA 5.0)
- Majors in Mathematics (GPA 5.0), Biology (GPA 4.9), Chemistry (GPA 4.8), and Physics (GPA 5.0)

WORK EXPERIENCE

DSO National Laboratories, Research Engineering Intern
Mar 2018 – Mar 2019
- Wrote a research paper comparing the scan performances of prime-focus, bifocal and quadrufocal reflectarray antennae
- Utilised GNU Octave, AutoCAD, and CST Microwave Studio
- Clinched awards in Singapore Science and Engineering Fair and NUS High School Research Congress

Singapore Armed Forces, National Service (Full-time)
Jan 2020 – Nov 2021
- Handled data analytics and visualisation to facilitate the promotion of all high-ranking officers in the 9th Division
- Learnt data science and analytics techniques to deal with the large amounts of data and restructure the ranking database
- Led the branch through a secondary appointment of branch representative

CO-CURRICULARS

SMUX Biking Vice-president and Training IC
- Oversaw internal operations of the club comprising hundreds of members
- Led regular events (almost weekly) for a vibrant student life in SMU

Data Associates Programme
- Worked on data science project under mentorship of industry professionals
- Learnt data science concepts through weekly 3-hour lectures

The Mentoring Circle (Mentee)
- Cultivated soft skills and gained industry knowledge from tech mentors

COURSE CERTIFICATIONS
- Python – University of Michigan
- PostgreSQL – University of Colorado Boulder
- Tableau Software – Duke University
- Multivariate Calculus for Machine Learning – Imperial College London

PROJECTS

JOB APPLICATION ASSISTANT
Matches resumes to job descriptions using machine learning, outputs suggested jobs

Captures the underlying context of words using vector embedding, semantic retrieval, and cosine similarity

Employs Natural Language Processing (NLP) techniques for text processing

Uses transformer-based neural networks to perform named-entity recognition for summarisation of job description

AUTOMATION OF TECHNICAL EQUITY TRADING
Uses Python to API call for real-time stock data

Scans entire stock exchanges and gives recommendations based on the user's trading strategy

Provides buy, target, and stop loss values

Displays valuable ratios and values of interest

VISUALISATION OF TRENDS IN MENTAL HEALTH DISORDERS
Processed data of over 6M patients with mental disorders using PostgreSQL

Designed visualisations using Tableau Software to draw correlations

Urged MHAs for reform in resource allocation to better aid those in need

AWARDS
- Leadership Commendation Award
- Outstanding Service Award