

# YuYing Chia

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## Education

### Singapore University of Technology and Design (SUTD)

Singapore

BACHELOR OF ENGINEERING (ENGINEERING SYSTEMS AND DESIGN), SUTD HOKKIEN FOUNDATION SCHOLARSHIP

May 2019 – Sept 2022

GPA: 4.21/ 5.00 (Honors with Distinction)

## Experience

### Capstone Project with SIA Engineering Company

Singapore

SMART INVENTORY MANAGEMENT AND OPTIMIZATION (SIMO) PROJECT

Jan 2022 – Present

- Performed data wrangling, transformation and visualization using Python libraries (Pandas, Matplotlib)
- Developed and formulated the theoretical backbone of the optimized inventory model
- Spearheaded my team of 7 in the simulation building of our inventory model using R programming
- Constantly update and gather feedbacks from our client to meet their needs

### The Analytics Edge (Machine Learning) kaggle Competition

Singapore

TO PERFORM SENTIMENT ANALYSIS ON TWEETS RELATING TO THE WEATHER USING MACHINE LEARNING IN R

Nov 2021 – Dec 2021

- Performed data cleaning using R library (Tidyverse)
- Performed data pre-processing using R libraries (textclean)
- Collaborated with teammates on the development and implementation of machine learning systems using R libraries (keras, CARET)
- Successfully attained a high prediction accuracy of 87.5% with the implementation of our final algorithm

### Internship at Oversea-Chinese Banking Corporation (OCBC)

Singapore

BUSINESS SOLUTIONS INTERN

May 2021 – Aug 2021

- Migrated legacy MS Access Program to Qlikview Program
- Decoded over 50 SQL queries in MS Access and transferred the code logic to Qlikview
- Optimized and improved the Qlikview Program, significantly reduced time taken by end-users to perform daily tasks
- Designed an automated interactive dashboard in Qlikview for generation of daily reports
- Automation of daily tasks using Python and VBA macros to help increase work efficiency

### Industrial Project with SIA Engineering Company

Singapore

PROJECT AIM: DEVELOP AN OPTIMIZED INVENTORY MODEL FOR SIAEC'S WAREHOUSE

Feb 2021 – May 2021

- Performed data wrangling and transformation using R libraries (Tidyverse)
- Conducted pre-analysis of data and data visualization using R libraries (ggplot2)
- Formulation and proposal of optimized Inventory Model, coded in R and delivered to client
- Successfully contributed some useful inventory management insights to clients

### Industrial Project with Integrated Systems Consultancy Pte Ltd

Singapore

PROJECT AIM: DETECT CHANGES IN CUSTOMERS PURCHASE PATTERNS & FORECASTING FUTURE SALES

Sept 2020 – Dec 2020

- Performed data cleaning and changepoint analysis using SQL and R
- Data visualization using Tableau
- Conducted predictive analysis forecast on sales data using prophet library in R
- Liaised with client regularly to that our proposed analytical methods and findings meet their expectations

### SUTD Chinese Orchestra

Singapore

EXCO POSITION: QUATERMASTER

July 2019 – Jan 2021

- Responsible for all the instruments, ensured that any loan of instruments is well-tracked and organized in Excel
- Planned and organized the weekly sectional, combined practices, and rehearsals
- Liaised with external vendors for the transport and loan of instruments

## Skills

### Technical:

R Programming (Tidyverse, CARET, Keras, Shiny), SQL, Python (Pandas, Sci-Kit Learn), MATLAB, VBA, JavaScript, Qlikview, Tableau, Power BI, Excel, QGIS, Simio, JaamSim

### Experienced in:

Business Analytics & Operations Research, Data Analytics & Visualization, Supply chain logistics

**Interpersonal Skills:** Team player, Problem solving, Self motivated, Clear communication