SAMUEL GOH JUN YU

Website: https://samuelgjy.github.io
Email: samuelgjy97@gmail.com **Mobile:** 96982892 **Github:** https://github.com/samuelgjy/

EDUCATION

BSc (Hons) Applied Artificial Intelligence **Aug 2022 - Apr 2025 (Expected)**
Singapore Institute of Technology

WORK EXPERIENCE

AMD - Data Analytics (Intern) **Jul 2024 - Present**

- **Developed an end-to-end pipeline using Dataiku**, automating data ingestion, preparation, analysis and report generation, reducing manual effort by 30%
- Designed statistical visualizations using **Matplotlib** and **Plotly**, enabling actionable insights into yield performance, test quality, and regression analysis
- Knowledge in normality testing using the **Shapiro-Wilk test** as part of a data analysis pipeline, enabling accurate statistical assumptions
- Experience with UNIX-based operating system like **Linux (Ubuntu)** and shell scripting.

AB Sciex Pte Ltd - Product Quality Analyst (Intern) **Mar 2019 - Aug 2019**

- Utilised advanced excel functionalities and implemented automation techniques using VBA
- Utilising Tableu, Excel to generate visualisation tools to create insightful representations
- Demonstrated strong communication skills by presenting findings to key stakeholders

RELEVANT PROJECTS

Interactive AI Chatbot for Large Language Model (LLMs) Exploration

- Designed and implemented an **AI-powered chatbot interface** for exploring and interacting with large language models in real time.
- Integrate multi-modal capabilities to support both **text-based** and **visual inputs** for diverse use cases.
- Utilized containerization technologies like **Dockers** to ensure application's portability and scalability across environments.
- Deployed web applications on **GCP**, managing server instance and ensuring reliability

Multilingual Speech and Language Evaluation (NLP Project)

- Utilized NLTK, TensorFlow, and PyTorch for data preprocessing, model development and evaluation
- Implemented OpenAI's Whisper model for speech recognition and natural language processing, **achieving 95% accuracy** in transcription.

Smart Proctoring (Computer Vision Project)

- Implemented object detection using YOLO algorithm for real-time identification
- Utilized **OpenCV** for image processing and established IoT connectivity using MQTT protocol
- Employed PyTorch for fine-tuning models and enhancing accuracy in object recognition tasks

HDB Resale Price Predictor (Machine Learning Project)

- Conducted data preprocessing, feature extraction and exploratory data analysis to prepare dataset for modelling
- Implemented ML algorithms and various evaluation metrics to assess predictive models

Physics Space Game (Object Oriented Programming)

- Designed and implemented game using **Java** and LibGDX, employing OOP principles and core concepts to create modular and reusable components

ADDITIONAL INFORMATION

Certificates: Google Professional ML Engineer, AI Singapore - Foundations In AI