

## KELLY WONG JIE YIN

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## EDUCATION

**Nanyang Technological University, Singapore**

**August 2020 – Present**

***Bachelor of Science in Data Science and Artificial Intelligence***

- Expected graduation in May 2024 with Honors (Distinction).
- Participated in the International Student Conference on Artificial Intelligence (STCAI) in 2022 with research paper titled Hybrid-Hyper GAN.
- Participated in student exchange at Queensland University of Technology (QUT) from February 2023 to July 2023.

## INTERNSHIP EXPERIENCE

**DBS, Singapore**

**July 2023 – Sep 2023**

***Data Science Intern***

***Group Audit (DAP)***

- Kickstarted project to implement Computer Vision models to pick up datapoints from more than 1000 scanned PDFs for audit checks and apply similarity search techniques to identify potential discrepancies among the PDF documents.
- Engaged in projects to construct knowledge graphs for large language models (LLM) by implementing Named Entity Recognition (NER) models.
- Support the development, execution, and refinement of automated systems to detect and validate suspicious transactions for escalation using Python and Tableau.

**KPMG, Singapore**

**Dec 2022 – Feb 2023**

***Management Intern***

***Tax Transformation & Technology (Take-Charge/Off-Cycle Internship)***

- Engaged in projects to implement Alteryx workflows for Extract, Transform, Load (ETL) processes and Power BI dashboards for data visualization as part of the solution to streamline the generation of tax related documents.
- Engaged in projects to implement Optical Character Recognition (OCR) to pick up datapoints from invoices.

**OCBC, Singapore**

**May 2022 – Dec 2022**

***STEM@OCBC Intern***

**Group Data Office (Risk Data Analytics)**

**May 2022 – Aug 2022**

- Support the CFS Risk & Prevention team to analyze, develop and implement data driven solutions covering Sales, Anti-Money Laundering (AML) and Operations surveillance.
- Support the development, execution, and refinement of automated systems to detect and validate suspicious transactions for escalation using Python and Power BI.
- Support projects to enhance leverage of analytics tools (ML and voice-to-text) to uncover new unknown risk typologies.

#### **Group Consumer Financial Services – Risk & Prevention**

**Aug 2022 – Dec 2022**

- Ensure surveillance methodologies remain relevant and timely in detection of key risk trends and incidences using Power BI and Python.
- Support regular and ad hoc around areas such as customer onboarding (Know Your Customer and Name Screening), customer transacting patterns, to identify and validate potential Suspicious Transactions.
- Assist in formulating controls to mitigate operational risks arising from initiatives and processes to an acceptable level of low and moderate risk.
- Improve compliance monitoring activities through data analytics to identify operational risk hotspots.

### **ACADEMIC PROJECTS**

**Nanyang Technological University, Singapore**

**Aug 2021 – June 2022**

**Undergraduate Research Experience (URECA) – Emotions in the Digital World**

- Awarded NTU President Research Scholar.
- Using Application Programming Interface (API) to access social media postings from Facebook, Twitter and Reddit, and text analysis on large databases of social media posts.
- Develop pipelines involving data science and artificial intelligence methods (Topic Modelling and Sentiment Analysis) to produce new insights on Covid-19 related posts.

### **CO-CURRICULAR ACTIVITIES**

**Institute of Electrical and Electronics Engineers (IEEE) NTU  
Tech Officer**

**Aug 2021 – May 2022**

- Created content and conducted tech-based (Natural Language Processing) workshops and lead long-term tech-based projects under the club.
- Act as a spokesperson for workshops under the club and manage tech-related participant queries during events.
- Build (Frontend), debug and maintain the virtual platform for iNTUition Hackathon 2022.

### **SKILLS**

**Languages:** Proficient in English, Mandarin, Cantonese, and conversant in Korean.

**Digital Skills:** Microsoft Office, Microsoft PowerPoint, Flutter.

**Programming Languages:** Python, PowerBI, Tableau, C, PostgreSQL, Java, R, PHP, Microsoft Azure, AWS, Excel Visual Basic.