



# Ian Yap

[xiyap.github.io](https://xiyap.github.io) (Portfolio)

Data-driven Automation R&D Researcher with proven track record in utilizing data analysis to produce innovative machine designs. Seeking a transition into the dynamic field of AI/Machine Learning, leveraging a strong foundation in analytical thinking and problem-solving. Eager to apply engineering expertise to provide machine learning solutions.

## Contact

### Phone

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### Address

Bandar Utama, 47800, Petaling Jaya,  
Selangor.

## Education

2019

### MEng (Hons): Mechatronic Engineering

University of Nottingham (First Class)

2014

### Australian Matriculation

Sunway College (ATAR: 89.90)

## Expertise

- Python (Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, OpenCV, Ultralytics-YOLO)
- Machine Learning (Regression, Classification, Clustering)
- Deep Learning (Neural Network, Computer Vision)
- Tableau, PowerBI
- Data Wrangling, EDA
- SQL
- Power Query, Power Pivot
- Microsoft Word, Excel, Powerpoint
- Project Management

## Language

English | Mandarin | Malay

## Experience

### 2020 - 2023

Top Glove Corporation Bhd. | Klang, Selangor

#### Researcher (Engineering Department)

- Spearheaded breakthrough project by producing a patent filing machine (PI2023003018) yielding a potential opportunity gain of RM7.7 million annually per factory, with ROI of 2.6 months post-implementation.
- Utilized data analysis and cost-benefit analysis to identify strategic engineering project opportunities, assess profitability for stakeholder buy-in and determine optimal project development direction.
- Initiated continuous improvement projects with a focus on Kaizen/Lean principles, laying the groundwork for future implementation to enhance operational productivity by minimizing waste.
- Developed sophisticated product animations and graphics to effectively communicate and showcase conceptual designs to stakeholders.
- Coordinated cross-functional teams including head of factories, managers, production, planning, packing, sales and more for project and process implementation.
- Led and supervised team of engineers and workers in project fabrication, implementation and improvement, ensuring most efficient project progress.
- Conducted SolidWorks training and best practices to a group of 90 personnel, aimed at alleviating department workload.

### 2021 - 2022

Home-Based 3D Printing Service | Petaling Jaya, Selangor

#### Freelance Service Provider

- Collaborated with business partner to offer 3D printing services as a supplementary initiative.
- Explored and identify innovative 3D printing product opportunities to contribute to business growth and diversification.

### 2019 - 2020

Top Glove Corporation Bhd. | Klang, Selangor

#### Engineer (R&D Department)

- Provided consultation for long-standing cost saving projects through on-site testing and troubleshooting in factory setting.
- Conducted research, cost assessment and concept design for alternative glove inner design, as requested by company COO.

## Professional Development & Certification

- **Machine Learning Specialization & Deep Learning Specialization**  
DeepLearning.AI (Coursera), 2024
- **IBM Data Science Professional Certificate**  
IBM (Coursera), 2023
- **Python for Machine Learning & Data Science Masterclass**  
(Udemy), 2023
- **SQL Basics for Data Science Specialization**  
University of California, Davis (Coursera), 2023
- **Data Visualization with Tableau Specialization**  
University of California, Davis (Coursera), 2023
- **Google Project Management Professional Certificate**  
Google, (Coursera), 2023