



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 to specialize in the dynamic field of **Machine Learning**, leveraging a comprehensive exposure to computer vision in industry setting, complemented by self-initiated projects. Eager to apply engineering expertise to provide machine learning solutions.

Contact

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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)

Skills

- Python (Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, PyTorch, OpenCV, YOLO)
- Machine Learning (Regression, Classification, Clustering)
- Deep Learning (CNN, RNN, Computer Vision, NLP, LLM)
- Data Wrangling, EDA, MLflow
- Tableau, PowerBI
- GitHub
- SQL
- Microsoft Word, Excel, Powerpoint
- Project Management

Language

English | Mandarin | Malay

Experience

- **03/2020 - 08/2023**  
Top Glove Corportation Bhd. | Klang, Selangor  
**Researcher (Engineering Department)**
  - Spearheaded breakthrough project by producing a patented 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, AI team and more for project and process implementation.
  - Led and supervised team of 7 engineers and 6 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.
- **07/2021 - 04/2022**  
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.
- **12/2019 - 02/2020**  
Top Glove Corportation 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 produced 3 new glove inner concept designs 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