



Ian Yap 

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
- 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