Ian Yap in

xiyap.github.io (Portfolio)

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Bandar Utama, 47800, Petaling Jaya,
Selangor.

Aspiring **AI/Machine Learning Practitioner** 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

Education

2019
MEng (Hons): Mechatronic Engineering
University of Nottingham
(First Class Honours / 4.0 CGPA)

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. l Klang, Selangor
Researcher (Engineering Department)

- Lead engineer of breakthrough patented project (PI2023003018), producing an automation machine yielding an opportunity gain of RM7.7 million annually per factory, with ROI of 2.6 months.
- Drive POC projects with machine learning solutions such as leveraging YOLOv8 algorithm for glove defect detection and glove positioning detection solutions.
- Additional role as Associate Engineer to the Engineering Consultant, addressing company wide engineering challenges including rectifying tilted 20-ton water tanks and restoring functionality to large carton folding machine with long term unresolved issues by utilizing data-driven insights to implement solutions.
- Employed data and cost-benefit analysis to identify strategic engineering project opportunities, with focus on managing stakeholders' interests to secure buy-in.
- Developed sophisticated product animations and graphics to effectively communicate and showcase conceptual designs to stakeholders.
- Coordinated cross-functional teams to ensure alignment with direction and goals of project.
- Led and supervised team of 7 engineers and 6 workers, ensuring streamlined progress in project fabrication, implementation and improvement.
- Conducted SolidWorks training to a cohort of 90 personnel, alleviating department workload.

07/2021 - 04/2022
Home-Based 3D Printing Service l 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. l 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), 2023

- **IBM Data Science Professional Certificate**
  IBM (Coursera), 2023

- **Python for Machine Learning & Data Science Masterclass**
  (Udemy), 2023

- **SQL 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