Ian Yap in

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

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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, 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 Corportation Bhd. l 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 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 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.

2019 - 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 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