

Ong Aun Jie

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As a former manufacturing engineer, I am currently transitioning into data science through self-directed learning. With a solid foundation in lean manufacturing and kaizen, I bring two years of experience, showcasing strong problem-solving abilities and a continuous improvement mindset. Through honed analytical skills and a robust foundation in data science, I am eager to leverage my engineering background to derive data-driven insights and contribute meaningfully to the field. I have successfully completed data science projects demonstrating my ability to extract valuable insights from complex datasets. My unique blend of engineering expertise and data science skills positions me as a valuable asset for driving data-driven decision making in both diverse and dynamic environments.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL (Postgres, Oracle SQL), HTML, Tailwind CSS, React.js
- **Data Analysis and Manipulation:** Pandas, NumPy, Regex, Microsoft Excel (Pivot table, XLOOKUP, Power Query and etc.)
- **Data Visualization:** PowerBI (including DAX), Matplotlib, Seaborn, Plotly
- **Machine learning and Deep Learning:** Scikit-learn, PyTorch, OpenCV, HuggingFace, YOLOv8, RoboFlow, MLflow, PyCaret
- **Natural Language Processing:** NLTK, BERT models (Text Classification, Sentiment Analysis, Question Answering)
- **Data Collection:** BeautifulSoup, Selenium, Scrapy, API Data Retrieval, Requests
- **Version Control and Tracking:** Git, GitHub,
- **Cloud Knowledge:** AWS(Athena, SageMaker, S3, Redshift) , Microsoft Azure (Blob storage, AzureML), Databricks
- **Others:** Docker, RESTful API using Flask, Streamlit

PROFESSIONAL EXPERIENCE

Career Transition into Data Science • Present

Petaling Jaya , Malaysia

Self-taught

Mar 2023 – Present

During this period, I've proactively transitioned into data science through self-study, online courses and hands-on projects.

- Developed a strong foundation in Python, emphasizing data structures, algorithms, and efficient problem-solving techniques.
- Attained data analytics certifications covering data cleaning, manipulation, visualization, exploratory data analysis, A/B testing, statistical analysis, and machine learning.
- Explored machine learning algorithms such as XGBoost, Random Forest and more for classification and regression tasks, with a focus on hyperparameter tuning using RandomizedSearchCV and GridSearchCV.
- Gained proficiency in deep learning applications using PyTorch for tasks like object detection and image classification.
- Created web applications for machine learning and deep learning models using Streamlit.
- Strengthened skills in PowerBI and SQL through practical application.
- Learned diverse data collection techniques including Web Scraping and API data retrieval.
- Applied AWS and Microsoft Azure for ML model deployment, SQL queries, and Cloud Storage.
- Explored Natural Language Processing, covering text classification, sentiment analysis, and chatbot development.
- Developed a personal portfolio website using HTML, TailwindCSS, and React.js, integrated with a fully functional chatbot created with Deep learning and Natural Language Processing Techniques.
- Please check out my portfolio website where I share my data science projects: ongaunjie.com

NXP Malaysia Sdn Bhd • 6 months

Petaling Jaya , Malaysia

Wire-Bond Equipment Engineer (Front-end BGA)

Sept 2022 – Feb 2023

- Responsible for managing K&S Wire Bonder machines and Post Wire Bond Inspection (AOI) machines, overseeing their operation, maintenance, and performance optimization.
- Skilled in investigating quality incidents, implementing corrective and preventive actions (CAPA), and ensuring adherence to equipment-related documentation standards.
- Experienced in utilizing root-cause analysis methods like Fishbone diagram, 5 Whys, Fault-Tree Analysis, Pareto Chart, and Failure Mode Effect Analysis (FMEA) to address machine-related issues.
- Collaborates with machine vendors to enhance machine performance and efficiency.
- Utilizes data analytics tools such as Excel, PowerBI and SQL to monitor machine performance, analyze data, and create dashboards for real-time monitoring and performance improvements.
 - ✓ Improved Mean Time Between Assists (MTBA) by 8% after implementing tracking through dashboards, enabling proactive maintenance and reducing machine downtime.
 - ✓ Successfully reduced overall in-line quality issues by utilizing a PowerBI dashboard for monitoring machine performance and promptly address any deviations or anomalies.
 - ✓ Effectively employed the dashboard to track and manage Critical Defect Management System (CDMS), resulting in a 13% reduction in CDMS and improved product quality.
- Presented data analysis findings to the quality team and department head to drive informed decision making.

Daikin Malaysia Sdn Bhd • 1 year 6 months*Production Engineer (Light commercial AC – Indoor unit)***Sungai Buloh, Malaysia***Oct 2020 – Mar 2022*

- Planned production capacity, schedule, and oversaw execution to meet customer delivery requirements.
- Managed a team of supervisors, foremen, lead operators, and operators to support production flow.
- Analysed and planned workforce utilization, workflow, space requirements, and equipment layout to improve manufacturing efficiency and capacity.
- Conducted root cause analysis and provided corrective & preventive actions for product quality issues.
- Collaborated with R&D, QC, Material Control, Maintenance, and Production Engineering departments to enhance product quality, optimize facilities, and improve production processes.
- Implemented Poka Yoke (Mistake Proofing) measures to minimize product defects and improve process control.
- Led continuous production and process improvement (KAIZEN) projects to achieve optimal performance in yield and productivity.
- Executed a KAIZEN project which resulted in a reduction of one manpower, saved cost by eliminating the need for an additional employee.
- Involved in various New Product Introduction (NPI) projects, including the implementation of Daikin Malaysia's First Ever Heat Reclaim Ventilator (VAM) into existing production lines.
- Created and maintained documents for work indication, safety work indication, and process checkpoints to minimize errors and accidents.

Soon Ngai Engineering Sdn Bhd • 3 months*Engineering Intern***Seri Kembangan, Malaysia***May 2019 – Aug 2019*

- Involved in the design and implementation of water treatment systems, including DI (Deionized) system, RO (Reverse Osmosis) system, and media filtration system.
- Participated in documentation works for various manufacturing industries, including Texas Instrument Malaysia, Mewah Oil Sdn Bhd, and Sunpower Malaysia.
- Collaborated with project engineers in preparing and submitting environmental quality documents to the Department of Environmental (DOE).
- Worked closely with purchasing and site personnel to prepare quotations for projects.
- Utilized 2D AutoCAD to create multiple drawings for clients.
- Attended an engineering workshop on the Fundamentals of Online Oxygen Measurement provided by Mettler Toledo.

EDUCATION**Heriot-Watt University***Master of Engineering in Chemical Engineering with Oil and Gas (MEng)***Putrajaya, Malaysia***Jan 2017 – July 2020*

- 2:1 Upper Second-Class Honors with CGPA – 3.5/4.0
- Thesis title: Recovery of Starch Residues from Sago effluent using Natural Coagulants

SOFT SKILLS**Analytical Thinking:** Strong analytical skills, critical thinking, and problem-solving abilities**Attention to Detail:** Ability to pay close attention to details, ensuring accuracy and precision in data analysis.**Curiosity and Continuous Learning:** Eagerness to learn and stay updated with the latest industry trends and technologies,**Communication:** Effective communicator, ability to present complex ideas to both technical and non-technical audience**Collaboration:** Teamwork and collaboration skills, ability to work effectively in cross-functional teams**Time Management:** Strong organizational and time management skills to handle multiple tasks and meet deadlines**CERTIFICATIONS & AWARDS****Google Advanced Data Analytics Professional Certificate** | Coursera*May 2023***DP-100: A-Z Machine Learning using Azure Machine Learning** | Udemy*July 2023***Practical Data Science on the AWS Cloud Specialization** | Coursera*Aug 2023***Complete Machine Learning & Data Science Bootcamp 2023** | Udemy*Sept 2023***The Complete SQL Bootcamp: Go from Zero to Hero** | Udemy*Sept 2023***YOLOv8: Object Detection, Tracking & Web App in Python** | Udemy*Oct 2023***Microsoft PowerBI Desktop for Business Intelligence** | Udemy*Nov 2023***Python Data Structures & Algorithms** | Udemy*Dec 2023***Duke of Edinburgh's Award (Bronze, Silver, Gold)** | DofE*2013-2015***ADDITIONAL INFORMATION****Languages:** Fluent in English, Mandarin, Bahasa Melayu | Limited working proficiency in Hokkien, Cantonese**Interests:** Hiking, Competitive sports & Competitive gaming