

SERENE MAH PEI JUN

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SKILLS

Python	
VSCode	
SQL	
QlikSense	
Microsoft Power BI	
AWS Services	
Tableau	
MiniTab	
CI/CD	
Six Sigma	
Microsoft Azure	
R Programming	

LANGUAGES

English	
Chinese (Simplified)	



PROFILE

Data Scientist with over 2 years of experience in building AI-driven solutions. Specializing in machine learning, predictive models, and statistical analysis to drive business outcomes. Proven track record in deploying AWS SageMaker and TensorFlow solutions, increasing operational efficiency by up to 50% and delivering measurable cost reductions.



EDUCATION & CERTIFICATION

Bachelor of Science with Merit, National University of Singapore, Singapore

August 2014 — June 2017

Major in Applied Mathematics [CAP:4.36]

Graduate Certificate in Business Analytics Practice , NUS ISS, Singapore

December 2021

- **AWS Certified Machine Learning – Speciality, AWS**

April 2023



PROFESSIONAL EXPERIENCE

Data Scientist at Agilent Technologies, Singapore

August 2022 — Present

- Time Series Forecasting: Designed and implemented a DeepAR model with AWS SageMaker, achieving 80% forecast accuracy for factory shipments, enhancing supply chain planning strategies.
- Computer Vision: Created a TensorFlow object detection model to streamline quality control checks, reducing QC cycle time by 50%, eliminating manual intervention, and increasing accuracy.
- Generative AI: Built a Quality Chatbot using large language models, automating failure classification, and cutting down decision-making time by over 60%.
- Machine Learning: Developed a classification model to predict ion transmission failure with over 70% accuracy, reducing chemical test rework by 20%.
- Data Visualization: Built a dashboard for the Procurement team to monitor price trends, identifying \$0.1 million in potential material cost savings, aiding in strategic purchasing decisions.

Technical Data Steward at NTUC Income, Singapore

August 2021 — Present

- Leadership: Led collaboration between data engineering and business teams, establishing data modelling standards that improved data consistency across departments.
- Organized task assignments and resource allocation for automating ETL testing, meeting all deadlines and reducing testing time by 25%.
- Data Mining: Identified and resolved data anomalies, improving overall data integrity by 15%.

Business Intelligence Analyst at United Overseas Bank Limited, Singapore

August 2020 — Present

- Business Intelligence: Directed a BI dashboard project, coordinating with analysts and business stakeholders to ensure timely project delivery, achieving a 20% reduction in data processing time.

- Mentored junior analysts on best practices in data visualization and dashboard development, enhancing team productivity and project consistency.
- Data Mining: Analysed workload trends to improve resource planning, cutting down overdue processes by 50%.