

Hong Zhen Ying

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EDUCATION

2023 – Present

(Graduating in May 2026)

Diploma in Applied Artificial Intelligence (AAI), Temasek Polytechnic

AY2023/2024 April Semester:

- CCF1C03 Cybersecurity Fundamentals
- CIA1C07 Logic and Mathematics
- CIA1C11 Data Visualisation and Analytics
- CIT1C18 Computational Thinking
- CIT1C19 User Experience and Interface Design

AY2023/2024 October Semester:

- CCF1C04 Network and Cloud Technology
- CIA1C06 Database Application Development
- CIT1C14 Data Structures and Algorithms
- CIT1C21 Application Development Project

AY2024/2025 April Semester:

- CAI2C01 Robotic Process Automation
- CIT2C18 Mobile App Development
- CAI2C09 Cloud Technologies for AI
- CAI2C08 Machine Learning for Developers

AY2024/2025 October Semester:

- CAI2C02 AI and Ethics
- CAI2C03 Deep Learning and Object Recognition
- CAI2C05 Natural Language Processing
- CMC2C16 IoT Application Development

AY2025/2026 April Semester:

- CAI2C06 AI for Advanced Manufacturing
- CAI2C07 AI for Cybersecurity

2019 – 2022

GCE ‘O’ Level Certificate, Hougang Secondary School

Obtained 7 credits with 2 distinctions in Elementary Math and Additional Math.

SKILLS

Technical/Domain Skills

- Python Programming (Proficient): Developed solutions for data manipulation and model development for engineered environments of predictive analytics.

- Machine Learning Frameworks: Utilized many different machine learning libraries, including TensorFlow and Scikit-learn to implement different algorithms which included regression, decision trees, and clustering.
- Data Preprocessing and Feature Engineering: Optimized data quality by preprocessing the data through feature transformation, data cleansing and feature selection to enhance the performance of the models.
- Predictive Analytics and Time-Series Forecasting: Conducted analysis and prediction techniques to get useful insights for business intelligence which proved the ability to conduct sophisticated analysis.
- Algorithm Implementation: Adopted a variety of approaches like regression, decision trees, and clustering among other techniques to enable and improve analytical model implementation.

Generic Skills

- Analytical Thinking: Developed strong analytical ability to process complex, large datasets and extract meaningful insights, which is crucial for accurate model evaluation, performance, and optimization.
- Problem-Solving: Skilled at identifying and addressing issues in data preprocessing, feature engineering, and model tuning to enhance the model's accuracy and solvency.
- Collaboration: Experienced in working with cross-functional teams to integrate models into systems, ensuring flawless collaboration and effective communication across departments.
- Adaptability: Flexible in handling diverse algorithms and tools (e.g., TensorFlow, Scikit-learn, Pandas, NumPy), and quick to adapt to the newest technologies and techniques in the ever-changing tech industry.
- Detail-Oriented: Meticulous in model development, data preprocessing, and feature engineering, an important dimension as it plays a major role in the accuracy of forecasting in analytics.

WORK EXPERIENCE

November 2022 – March 2023

Waitress

Saizeriya

- Fostered teamwork by working closely with the kitchen and service staff to maintain efficient service, demonstrating a collaborative mindset which is a necessary skill for cross-functional project work.
- Enhanced communication skills through daily interactions with customers, crucial for conveying technical information within team environments.
- Demonstrated adaptability by constantly learning and applying new processes quickly to meet dynamic service needs, reflecting an ability to adapt in the tech industry.

Artificial Intelligence Intern

HSBC

- Supported month-end financial close processes within the regulatory reporting function, ensuring data accuracy and timely reporting.
- Contributed to an internal automation project by applying AI tools and basic automation techniques to improve reporting workflows and reduce manual effort.
- Analysed existing processes to identify inefficiencies and potential automation opportunities, working closely with team members to propose improvements.

AWARDS/ACHIEVEMENTS

2025

Good Progress Award (top 10% in terms of improvement in academic performance)

2021

Edusave Scholarship Award (top 25% in cohort)

2020 Edusave Scholarship Award (top 10% in cohort)

CO-CURRICULAR ACTIVITIES

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| 2023 – Present | TPLead (Temasek Polytechnic's leadership programme) <ul style="list-style-type: none">• Engaged in leadership development activities, advancing project management and teamwork skills applicable to collaborative technical projects. |
| 2019 – 2022 | Judo Club <ul style="list-style-type: none">• Executive Committee (Exco) Member for Event Planning: Led event planning, including organizing a graduation party for seniors, refining organizational and leadership abilities. |

REFERENCES

Available upon request