ANDREW PANG

ASPIRING AI ENGINEER

CONTACT

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SKILLS

- Machine Learning
- Deep Learning
- Tensorflow & Keras
- PyTorch
- Scikit-learn
- Data Analysis
- Data Preprocessing
- Problem Solving
- Critical Thinking
- Efficient Collaboration
- Adaptability to Change
- Time Management

LANGUAGES

- Python
- SQL
- Javascript
- HTML5
- CSS3

ABOUT ME

I'm an Applied AI & Analytics student at Singapore Polytechnic with a passion for turning data into meaningful solutions. I've worked on several projects involving image classification, forecasting, and data segmentation using Python and libraries like Scikit-learn and Keras. I enjoy experimenting with ideas, solving practical problems, and learning from real-world challenges. I'm eager to apply my skills in meaningful projects and continue growing through hands-on experience.

EDUCATION

Singapore Polytechnic
Diploma in Applied AI & Analytics
Apr 2024 - Present

Deep Learning
Singapore Polytechnic
Apr 2025 - Aug 2025

The Deep Learning module offered hands-on experience with neural networks, CNNs for image classification, RNNs for sequence modeling. and advanced generative models like GANs and VAEs. I also explored reinforcement learning and applied these techniques in projects, focusing on model design, training, optimization, and evaluation on real-world datasets.

Data Structures & Algorithms
Singapore Polytechnic
Apr 2025 - Aug 2025

The Data Structures and Algorithms module covered essential data structures. Such as arrays, linked lists, stacks, queues, trees, and graphs — alongside recursion, sorting, searching, and complexity analysis. Projects like a haiku generator and an OCR text restoration tool reinforced practical skills in algorithm design, recursion, and efficient problem-solving.

AI & Machine Learning
Singapore Polytechnic
Oct 2024 - Mar 2025

The AI & Machine Learning module covered foundational concepts with hands-on implementation using Scikit-learn, including classification, segmentation, and time series forecasting. I built end-to-end ML pipelines, explored CNNs for basic image recognition, and completed projects that reinforced feature engineering, model tuning, and result analysis.

Holy Innocents' High School
GCE 'O' Levels in General Studies
Jan 2020 - Sept 2023

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COURSES

Introduction to Deep Learning with PyTorch
DataCamp   Aug 2025

- Learned the fundamentals of deep learning and its applications across domains such as computer vision, speech, and autonomous systems.
- Built and trained classification and regression models using PyTorch, one of the leading deep learning frameworks.
- Gained hands-on experience in model development, training, and evaluation for real-world tasks.

Introduction to Deep Learning with Keras
DataCamp   May 2025

- Built deep learning models with Keras for real-world tasks, including regression, binary, and multi-class classification.
- Applied neural networks to reconstruct noisy images and improve prediction accuracy.
- Learned training control and hyper-parameter tuning to optimize model performance.

Supervised Learning with Scikit-learn
DataCamp   Nov 2024

- Built and trained predictive models using Python's Scikit-learn on real-world datasets.
- Tackled problems such as customer churn prediction, diabetes diagnosis, and music genre classification.
- Applied end-to-end workflows: data preprocessing, model selection, parameter tuning, and performance evaluation.

EXTRA-CURRICULAR ACTIVITIES

Dragon Boat
Singapore Polytechnic   Apr 2024 - Sept 2024

- Developed teamwork, discipline, and perseverance through active participation in the Dragon Boat team.
- Enhanced communication and coordination skills by training and competing within diverse teams.
- Strengthened time management and resilience, enabling effective focus on complex AI projects.

Wushu
Holy Innocents' High School   Jan 2020 - Apr 2023

- Led the Wushu team as captain, honing leadership and decision-making skills.
- Fostered team cohesion and motivation, guiding members to achieve collective goals.
- Built discipline, focus, and resilience, translating athletic dedication into professional and academic pursuits.