Ik Teng Liaw

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EDUCATION

University of Wisconsin – Madison (USA)   **Sep 2023 – May 2025 (expected)**

Bachelor of Science in Computer Science
CGPA: 3.46/4.00
Relevant Coursework: Introduction to AI, Introduction to Computer Engineering, Machine Organization & Programming, Introduction to Algorithms, Introduction to Human-Computer Interaction, Elementary Matrix & Linear Algebra

Sunway University (Malaysia)   **Jan 2022 - Aug 2023**

American Degree Transfer Program
CGPA: 3.48/4.00
Relevant Coursework: Programming I-III, Introduction to Discrete Mathematics, Calculus & Analytic Geometry I & II, Calculus-Functions of Variables, Introduction to Probability & Mathematical Statistics I

SKILLS

- Programming Languages: Python, Flask, Java, HTML, CSS
- Frameworks & Tools: PyTorch, TensorFlow, Keras, Scikit-learn, Matplotlib, Seaborn
- Other Tools: Figma, Canva, Microsoft Office Suite
- Languages: English (Proficient), Chinese (Proficient)
- Soft Skills: Critical thinking, effective communication, adaptability, and collaborative teamwork

PROJECTS

RSNA Pneumonia Detection Project   https://github.com/ikteng/RSNA-Pneumonia-Detection-Project

- Built a DenseNet model to detect pneumonia from chest X-ray images.
- Preprocessed and augmented DICOM images, addressing class imbalance using SMOTE.
- Achieved 85% accuracy, evaluating model performance with precision, recall, F1-score, and AUC.
- Generated test predictions based on the trained model.

IMDb Movie Review Sentiment Analysis   https://github.com/ikteng/Movie_Reviews

- Classified IMDb movie reviews as positive or negative using Naive Bayes and deep learning models.
- Preprocessed text data through tokenization, punctuation removal, and padding.
- Achieved 85% accuracy with Naive Bayes and 84.92% with a deep learning model.
- Evaluated model performance with accuracy and classification reports, enabling sentiment prediction for new reviews.

Age and Gender Predictor   https://github.com/ikteng/Age-and-Gender-Predictor

- Built CNN models for real-time age and gender prediction from facial images using the UTKFace dataset.
- Preprocessed and augmented image data, trained models with callbacks for early stopping and checkpointing.
- Deployed models for live webcam predictions, using Haar cascade for face detection and displaying results with bounding boxes.

LEADERSHIP EXPERIENCE & CAMPUS INVOLVEMENT

Member, AI@UW   **Aug 2024 – May 2025**

- Collaborated with students from diverse academic backgrounds in a community-centered environment.
- Gained hands-on experience applying AI techniques and tools to real-world problems.
- Engaged with a variety of AI topics, including the relationship between neuroscience and AI.

Member, Rotaract Club of Sunway University   **Sep 2022 – Aug 2023**

- Assisted in organizing the Sunway MS Charity Walk, helping to raise awareness and funds for the Multiple Sclerosis Society in Malaysia, with over 60 volunteers participating.
- Supported the promotion and coordination of the EDURACT tutoring project, facilitating weekly lessons that aimed to improve academic outcomes for underprivileged children in the community.
- Actively participated in monthly meetings, contributing ideas and collaborating with fellow members to enhance community service initiatives.

ACHIEVEMENTS

- Certificate of Academic Honors: Summa Cum Laude (Jan – May 2023)
- Certificate of Academic Honors: Cum Laude (Aug – Dec 2022)
- Jeffrey Cheah Entrance Scholarship Recipient (2022)