Kyaw Swar Hein

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EDUCATION

King Mongkut's University of Technology Thonburi **Aug. 2021 – May 2025**
Bachelor of Science in Computer Science, CGPA: 3.77/4.00, MIS Scholarship Recipient *Bangkok, Bangmod*

RELEVANT COURSEWORK

- Data Structures
- Advanced Java
- Algorithms Analysis
- Statistics
- Machine Learning
- Data Mining
- Database Management
- Artificial Intelligence
- Data Science
- Operating System
- Web App Development
- Mobile App Development
- Agile Software Development
- Discrete Mathematics

PROJECTS

Hand Raising Detection AI Website | *React, Python, Node.js, MongoDB* | **Link** **December 2023**

- Developed a website that uses a webcam to detect hand raising in real time.
- Annotated and pre-processed over 3000 images using Roboflow and trained the AI model on Google Colab.
- Integrated the AI model with the website via Roboflow API, achieving 98.5% accuracy in real-time hand detection.

Text Sentiment Analysis | *Python, Transformers* | **Link** **February 2024**

- Engineered a machine learning model on Kaggle with a Tweets dataset to classify tweets as positive, negative, or neutral, providing valuable insights into social media sentiment.
- Enhanced model performance by 1%, achieving a new accuracy of 94% compared to the previous highest of 93%.
- Utilized Python, Matplotlib, Pandas, and Transformers NLP libraries for Exploratory Data Analysis (EDA), data pre-processing, model training, and evaluation.

Fresh Fruits and Rotten Fruits Classification | *Python, Keras, TensorFlow* | **Link** **March 2024**

- Developed a machine learning CNN (MobileNet) model on Kaggle to classify fresh and rotten fruits using a fruits dataset.
- Achieved an accuracy of 81.9% on the classification task (highest score being 82%). (Click here to see the actual score.)
- Leveraged Python, Keras, TensorFlow, Matplotlib, and Pandas libraries for EDA, data pre-processing, model training, and evaluation.

PII (Personal Identifiable Information) Detection Model | *Python, Transformers, OpenAI API* | **Link** **April 2024**

- Created a machine learning model on Kaggle with a Text (Essay) dataset to detect PII.
- Achieved 96% accuracy (highest score being 98%) in detecting PII.
- Utilized Python, Numpy, Matplotlib, Pandas, ChatGPT API, and Transformers libraries for custom dataset generation, EDA, data pre-processing, model training, and evaluation.

CERTIFICATIONS

Google Data Analytics: "Data, Data, Everywhere", "Ask Questions to Make Data-Driven Decisions", "Prepare Data for Exploration", "Process Data from Dirty to Clean", "Analyze Data to Answer Questions", "Share Data Through the Art of Visualization", "Data Analysis with R Programming", "Google Data Analytics Capstone: Complete a **Case Study (Link)**"
Data Science: "Computer Vision", "Data Visualization", "Fundamental of Deep Learning", "Geospatial Analysis", "Intro to Game AI", "Intro to Machine Learning", "Machine Learning Explainability", "Python for Data Science, AI and Development"

SKILLS SUMMARY

Languages: Java, SQL, Python, R
Tools: Tableau, MySQL, Spreadsheets, Microsoft Excel, Google Colab, Roboflow, Kaggle
Frameworks: RDBMS, Panda, Matplotlib, TensorFlow, CNN, Keras, Numpy, Transformers
Project Management: Agile (SCRUM), GitHub
Platforms: Visual Studio Code, Kaggle, NetBeans IDE
Soft Skills: Excellent Verbal and Written Communication, High Pattern Recognition, Resource Management, Time Management, Researching, Team Player