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**

- Created a website that uses a webcam to detect raising hands in real time.
- Annotated and pre-processed over 3000 images data on Roboflow and trained the AI model using Google Colab.
- Used Roboflow API to integrate AI model with website and detect raising hands in real time with 98.5% accuracy.

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

- Trained a machine learning model on Kaggle with Tweets dataset to distinguish which tweets are positive, negative or neutral.
- Improved the model performance by 1% from the former highest 93% accuracy to new highest 94% accuracy on the tweet/text data.
- Used Python, Matplotlib, Panda and Transformers NLP libraries to do Exploratory Data Analysis (EDA), Data Pre-processing, Model training and Model Evaluation with the given dataset.

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

- Train a machine learning CNN (MobileNet) model on Kaggle with Fresh/Rotten Fruits dataset to classify which fruits are fresh or rotten.
- Trained and reached 81.9% accuracy (Highest one is 82%) on the classification task. (Please click here to see the actual score.)
- Used Python, Keras, TensorFlow, Matplotlib, and Panda libraries to do Exploratory Data Analysis (EDA), Data Pre-processing, Model training and Model Evaluation with the given dataset.

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

- Trained a machine learning model on Kaggle with Text (Essay) dataset to detect PII in the Text (Essay).
- Trained and reached 96% accuracy (Highest one is 98%) on detecting PII.
- Used Python, Numpy, , Matplotlib, Panda, ChatGPT API and Transformers libraries to do Custom Dataset Generation, Exploratory Data Analysis (EDA), Data Pre-processing, Model training and Model Evaluation with the given dataset.

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"

SKILLS SUMMARY

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