Name	:	**Ms. Than Than Swe**
Contact Number	:	+82 10-4651-6295 (WhatsApp/Call)
Gmail	:	thanthanswe0310@gmail.com
LinkedIn	:	https://www.linkedin.com/in/than-than-swe-0a52a216a/
Github	:	https://github.com/thanthanswe0310

Dedicated and results-oriented professional with a solid foundation in Computer Science, specializing in data science, advanced data analysis, machine learning, and computer vision. With over five years of diverse industry experience, I have successfully developed and deployed predictive models, conducted sophisticated data analyses, and implemented state-of-the-art data visualization techniques. My expertise in computer vision includes designing and optimizing image recognition and classification algorithms. Additionally, my experience as a software engineer, focused on distributed enterprise software and database application development, enables me to seamlessly integrate AI-driven solutions into scalable and robust software systems.

Work Experience

Tricubics Seoul, South Korea

AI Software Engineer   **15/05/2024 - Present**
Key Deliverables:

- Designing and implementing the system architecture for a Smart Unmanned Store using Node.js and C++.
- Created two mock servers for two vendors (https://www.workershigh.com/ and http://phasecommu.com/).
- Currently conducting research on YOLOv8 for product detection and exploring pose estimation techniques for hand detection to enhance decision-making processes related to purchase intent.

Bistos Co.Ltd, South Korea

R&D Full-Time Researcher   **02/2024 – 10/05/2024**
Key Deliverables:

- Worked as an embedded software engineer using C/C++ on FreeRTOS, **adding a pre-warning message** for controlling **high-temperature** conditions in **the BT-450 device (PHOTOTHERAPY).**
- Implemented **Pre-alarm message** using the statistical methods in the **BT-450 device.**

ConTILab – Construction Innovation Technology Laboratory at Chung Ang University Seoul, South Korea

Assistant AI Researcher- Project Contract (E3 Visa)   10/2023 – 01/2024

Key Deliverables:

- Worked in the field of computer vision on smart construction projects (National IT Industry Promotion Agency (NIPA) and National Information Society Agency (NIA)) funded by the Korean Government.
- Specialized in computer vision for smart construction projects funded by the Korean Government.
- Developed and optimized algorithms for Automatic Detection of Personal Protective Equipment (PPE), Ladder, and Scaffold monitoring in construction sites.
- Designed and implemented image processing pipelines for data preprocessing and feature extraction.
- Collaborated with cross-functional teams to integrate computer vision solutions into software applications.

Assistant AI Researcher- Project Contract (Student: D2 Visa)   07/2023 – 08/2024

Key Deliverables:

- Parsed from segmentation and bounding box (COCO) format to bounding box in Yolo format.
- Collected and analyzed various (PPE and construction) videos and images to go to the construction sites.

Seoul National University of Science and Technology, Seoul, South Korea

Research Fellow   02/2023- Present

Key Deliverables:

- My research is focused on the field of data science, machine learning.

KBZMS (General Insurance) Company Yangon, Myanmar

Full-Time Business Data Analyst (Data Mining)   01/2021-12/2022

Key Deliverables:

- Applied advanced data mining techniques to investigate leads and identify patterns, leading to more informed business strategies.
- Identified areas for improvement in current processes, products/services, or analytical models, driving efficiency and effectiveness.
- Integrated diverse data sets for predictive modeling, utilizing AWS and scripting in Python for ETL processes.
- Generated new datasets by combining data from multiple source systems into AWS for enhanced predictive modeling accuracy.
- Applied Python to build ETL processes from various data sources (Oracle SQL, MS SQL, and SAP HANA) to an AWS data lake.
- Developed compelling, logically structured presentations to effectively communicate research and analytics findings through storytelling.
- Established the data and reporting infrastructure using Power BI, providing real-time insights into insurance products, market penetration, HR management, Net Promoter Score (NPS), sales tracking, agent records, and business KPIs.

UMG Myanmar Ideal Lab Yangon, Myanmar

Full-Time Data Scientist   09/2020 - 12/2020

Key Deliverables:

- Developed data models based on advanced **statistical modeling, data mining**, and **machine learning** methods.
- Assisted with developing new data-discovery tools.
- Performed data validation and quality control checks.
- Prepared documentation to outline **data sources, models and algorithms** used and developed.

Phandeeyar Myanmar Innovation Lab Yangon, Myanmar

Full-Time Data Analyst   05/2020 - 08/2020

Key Deliverables:

- Extracted social media data using Crowd Tangle tool to interpret, clean and analyze using a script language (**Python**) twice a month.
- Originated and monitored a hate speech dashboard in **Google Data Studio.**
- Mined data to identify **trends, patterns and correlations** using some **statistical techniques.**
- Designed data reports and visualization tools to facilitate data understanding.
- Cleaned databases to remove duplicated, outdated, or irrelevant information.

Socialtek.io, Hyderabad, India

Full-Time Data Science Intern   09/2019 - 03/2020

Key Deliverables:

- Gathered data from internal systems and external sources
- Assisted with developing new data-discovery tools
- Developed an employee attendance system used in a **computer vision system with OpenCV**
- Researched the algorithms for **object detection and recognition**
- Applied face detection model based on **HoG Face Detector in Dlib** with 98% accuracy score.

Berakah Peneil Co., Ltd, Yangon, Myanmar

Full-Stack Python/Odoo Developer   09/2018-08/2019

Key Deliverables:

- Designed and tested of Odoo (**OpenERP**) addons, projects, products, and interfaces.
- Reviewing codes and aiding group members (internship students) who have very little expertise.
- Interacted with customers and provide guidance with Odoo (**OpenERP**) module's functionality.
- Integrated applications with **back-end databases**
- Applied a **Git** version control in **Linux operating system** to collaborate with co-workers.

Education and Honors

Master of Computer Science

Computer Science and Engineering Department, University of Mysore, Karnataka State, India

- Grade **GPA: 9/10**

Bachelor of Computer Science

University of Computer Studies Yangon, Myanmar

- Cumulative GPA: A

Technical Skills

Programming Languages	Python, C/C++, XML, HTML, CSS
Machine learning	Supervised and Unsupervised Machine Learning Algorithms
Deep Learning	ANN, RNN, Computer Vision
Analytical Tools	Power BI, Tableau, Google Data Studio
Databases	PostgreSQL, Oracle SQL
Cloud Computing	Amazon Web Services (AWS)
Others	Odoo (formerly OpenERP) Framework, Git, Linux, Pytorch, CUDA and GPU, Docker,Microsoft Apps (Power Automate, Power Apps, SharePoint), Data Mining Techniques, Statistical Techniques.

Skills and Competencies

● Lifelong Learning	● Problem Solving
● Software Configuration	● Communication
● Analytics and Computational Modeling	● Data Strategy, Data Visualization
● AI, Machine Learning, and Data Science	● Creative Thinking

Awards and Distinctions

- **U Tin Maung National Scholarship Program, Mandalay, Myanmar**
  - National Scholarship Award that covered by four-year of my bachelor's program
- **ICCR (India Culture Council for Relationships) Scholarship Program**
  - ICCR Scholarship Award that covered by two-year of my master's program

Languages

- Burmese (Native)
- English (Fluent)