THIHAN MOE KYAW

312-783-0100 | linkedin.com/in/thihan-moe-kyaw | tkyaw2@illinois.edu

EDUCATION

University of Illinois at Urbana-Champaign (UIUC), IL　　　　　　　　　May 2023
Master of Science in Industrial Engineering (Advanced Analytics & Operations Research)　　　GPA 3.77/4.00
Relevant coursework: Applied Machine Learning, Algorithms of Data Analytics, Statistics of Big Data

University of Illinois at Chicago (UIC), IL　　　　　　　　　May 2021
Bachelor of Science in Industrial Engineering (Suma Cum Lade)　　　　　GPA 3.67/4.00

- Honors College Member & Dean's list student

PROJECTS & RESEARCH EXPERIENCES

University of Illinois at Urbana-Champaign

Terrorist Network Detection　　　　　　　　　Nov 2021

- Used python to collaboratively create a machine learning model to classify and analyze hidden terrorist networks between terrorist groups

University of Illinois at Chicago and Fermilab

Machine Vision Project　　　　　　　　　Oct 2020 – May 2021

- Collaborated with a cross disciplinary team to prototype a robot to automate maintenance in highly radioactive environments.
- Integrated and trained machine learning models to detect nuts and bolts on prototype robot

University of Illinois at Chicago

Bikeshare System Station Simulation　　　　　　　　　Aug 2020 – Dec 2020

- Developed a scalable bike-share simulation model using python and Arena simulation software to determine optimal bike docks needed

Research assistant　　　　　　　　　*Jan 2020 – May 2020*

- Investigated how Intelligent Virtual Assistant affect human's workload and performance
- Analyzed, collected, and studied human subjects to get necessary information and data

Car Production Optimization　　　　　　　　　Aug 2019 – Dec 2019

- Collaboratively created an optimization model to maximize profit of a manufacturing plant
- Interviewed and emailed plant managers to gather relevant data
- Research model showed inefficiencies in manufacturing and supply chain while could potentially save thousands of dollars per week

WORK EXPERIENCE

University of Illinois at Urbana-Champaign

Graduate Course Assistant　　　　　　　　　Jan 2022 – Present

- Grade doctorate level operations research/data analytics class homework and exams of 20 students

University of Illinois at Chicago

College of Liberal Arts and Sciences, Department of Mathematics, Statistics, & Computer Science

Undergraduate Math Teaching Assistant　　　　　　　　　Aug 2018 – Jun 2021

- Met with students during peer-to-peer office hours and served as conduit between students and instructors to ensure consistency of delivery of course materials
- Brainstormed with TAs and professors to formulate strategies to improve delivery of course content

College of Engineering, Department of Computer Science

Computer Science Teaching Assistant　　　　　　　　　Jan 2019 – May 2019

- Taught C++ to fifteen students and introduced them to MatLab
- Adjusted teaching style accordingly to meet learning needs of each student

SKILLS

Programming Languages: Python, SQL, R, Matlab, C++
Software: Gurobi, TensorFlow, Pytorch, Sci-Kit-Learn, Excel, PowerPoint, Minitab, Arena, Tableau
Statistics & Machine Learning: Hypothesis Testing, Deep Learning, Supervised & Unsupervised Learning