

VANISA ACHAKULVISUT
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EDUCATION

UNIVERSITY OF ILLINOIS AT CHICAGO

Chicago, IL

Master of Science in Business Analytics, December 2021

August 2020 – Present

Relevant coursework: Machine Learning, Big Data Analytics, Deep Learning, Data Visualization

GPA 3.88/4.00

- **Loan Default and Return Prediction (R)**
Led a team of 3 to create robust tree-based predictive modeling of loan default and annual returns to support the investment approach resulting in projected annual increase of 22.4%.
- **Real-time Twitter Sentiment Analysis (PySpark, AWS)**
Built sentiment analyzer to understand hashtag polarity on AWS virtual machine using text data retrieved from Twitter API.
- **Text Structure Production (Python)**
Developed Generative Adversarial Network (GAN) model to facilitate authors writing complex structure novel.
- **Airline Performance Analysis based on Chicago (Tableau)**
Identified airlines' operational performance issues and provided competitive solution strategies.
- **Activities:** Quantitative Trading Club: Club Secretary, Co-organized Trading Workshop and Competition.

CHULALONGKORN UNIVERSITY

Bangkok, Thailand

Bachelor of Engineering in Chemical Engineering, June 2017

May 2013 – June 2017

Relevant coursework: Economics for Engineering, Process Design

GPA 3.24/4.00

- **Activities:** Volunteer Teaching Club: Academic Leader, Pre-Engineering Camp: Organized event and solicited sponsorships.

TECHNICAL SKILLS

- Advanced skills of programming languages: Python, R, SQL, VBA.
- Profound knowledge of Machine Learning and Deep Learning Libraries: Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch.
- Proficient user of Data Visualization tools & Analytics Software: Tableau, PowerBI, SAS.

EXPERIENCE

YMY SOLUTIONS

Chicago, IL

Research Analyst Intern

June 2021 – August 2021

- Conducted market research, evaluated company financial statements and growth prospects via DCF and M&A model.
- Improved business systems using Systems Development Life Cycle (SDLC) concept in Business Intelligence Platforms.

BANGKOK BANK PUBLIC COMPANY LIMITED

Bangkok, Thailand

Portfolio Management Analyst, Portfolio Management Unit

August 2019 – August 2020

- Raised overall profit 5% per portfolio through collaborative optimization strategy with Analytic and Policy teams.
- Automated Portfolio Dynamic Profile input process saving 20% of times per decision cycle. (*VBA, SAS, SQL*)
- Built statistic-based loss forecasting models and balanced default risk of loan portfolios. (*VBA, SAS*)
- Investigated economic behavior from survey data and performed stress tests to forecast Covid-19 impact on enterprise.

TECHNIP FMC

Bangkok, Thailand

Process Engineering Consultant, Process Department

September 2017 – June 2019

- Conducted economic safety integrity analysis on a \$30M revamping project in refinery system. (*Aspen*)
- Optimized thermo-fluid energy consumption and modified pipe route resulting in cost reduction for \$200K annually.
- Designed General Offshore Oil & Gas Wellhead Platform Guidance applicable to all resources in the Gulf of Thailand.

SIAM CEMENT GROUP PUBLIC COMPANY LIMITED

Rayong, Thailand

Utility Engineer Intern, Siam Mitsui PTA

June 2016 – August 2016

- Assessed economic evaluation and project feasibility study on floating solar farm potentially arise income \$30K annually.