

## VANISA ACHAKULVISUT

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### EDUCATION

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#### 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 – Investment Approach (R)**

Led a team of 3 to create robust tree-based models to predict the likelihood of loan default and an annual return to support the investment strategy and suggest the best forecasting model resulting in a projected annual increase of 22.4%

- **Real-time Twitter Sentiment Analysis (PySpark, AWS)**

Retrieved and explored the timeline of public Tweets using Twitter public API. Built sentiment analyzer using Vader and TextBlob classifier to understand the polarities of the hashtags and deploy the application on AWS virtual machine.

- **Text Structure Production (Python)**

Developed and trained Generative Adversarial Network (GAN) to generate sentence structure using novel text-based.

- **Airline performance analysis based on Chicago (Tableau)**

Visualized JetBlue Airways' performance and compared it against other airlines using Tableau.

- **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:** Rotaract Club: Volunteer lead teacher, Larngear Pre-Engineering Camp: Solicited corporate sponsorships.

### TECHNICAL SKILLS

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- Python, R, SQL, JAVA, VBA, LaTeX, Tableau, SAS, AWS

### EXPERIENCE

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#### YMY SOLUTIONS

Chicago, IL

*Research Analyst Intern*

June 2021 – August 2021

- Conducted market research & business cases, analyzed financial statements, and reported directly to CEO and president.
- Collaborated with other interns to create financial models; DCF, LBO, and M&A model. (*Excel*)
- Assisted in developing business strategies and contributed to the business development of the enterprise.

#### BANGKOK BANK PUBLIC COMPANY LIMITED

Bangkok, Thailand

*Portfolio Management Analyst, Commercial Portfolio Strategy, Portfolio Management Unit*

August 2019 – August 2020

- Raised overall profit 5% per portfolio and reduce default rate through better portfolio management optimize strategy.
- Redesigns Automatic Models for Portfolio Dynamic Profile to enhance performance and minimize working complexity. (*Excel, VBA, SAS*)
- Compiled Covid-19 economic impact survey for Thai small-to-medium enterprises (SMEs) and performed stress tests on the customer balance sheet to project profit and loss on the bank. (*Excel, VBA, SAS*)
- Built loss-forecasting models and maximized access to Thai Credit Guarantee (TCG) Corporation's capital. (*Excel*)
- Balanced default risk and interest return from SMEs under TCG program to augment income.
- Analyzed and visualized specific information into simple interpretation to present the board of directors.
- Collaborated with Analytic team and implemented portfolio management procedures to control performance especially for Thai SMEs.

#### TECHNIP FMC

Bangkok, Thailand

*Process Engineer, Process Department*

September 2017 – June 2019

- Conducted engineering analysis, optimization studies and mitigations for petrochemical industries. (*Aspen*)
- Modified pipe routes and suggested optimum solutions to problems result in operating cost reduction for \$200K annually.
- Evaluated potential risks and improved safety integrity level by implemented safety devices in refinery system.

#### SIAM CEMENT GROUP PUBLIC COMPANY LIMITED

Rayong, Thailand

*Utility Engineer Intern, Siam Mitsui PTA*

June 2016 – August 2016

- Estimated water loss in process and proposed mitigating solutions to reduce loss approximately \$30K annually.

### ADDITIONAL INFORMATION

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- Languages: Thai (Native), English (Fluent), Chinese (Intermediate)
- Interests: Avid runner, Volunteer teacher, Casual traveler, Amateur home barista