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 $80M 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.