

## KEVIN GOH

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### EDUCATION

#### National University of Singapore

Aug 2022 - Present

*Master of Science (Financial Engineering; Part-time)*

- GPA 4.50/5.00
- Lee Foundation Scholarship

Aug 2015 - May 2019

#### Cornell University

*Bachelor of Arts (Triple Major in Economics, Government, and Philosophy)*

- GPA 4.03/4.00 with Distinction in all subjects
- Singapore Economic Development Board Scholarship

### PROJECTS

#### Technical Indicator Movement Forecaster

Jan 2023 - Present

- 'Quantamental' model using LightGBM to forecast the direction of movement for several technical indicators.
- Accuracy on unseen data averaged 59%; 10-15% better than baseline (random guess). Further optimization in progress. Potential application in mean-reversion models.

#### Cryptocurrency Trading Signal Generator

Feb 2023 - Apr 2023

- Focused on top 5 cryptocurrencies by market cap. Features used include technical and macroeconomic indicators, as well as unstructured text data.
- Test on unseen data generated positive alpha for BTC, ETH, SOL, XRP.

#### Research: Utility of Risk Factors in Forecasting Daily Stock Returns

Feb 2023 - Apr 2023

- Identified risk factors with the greatest explanatory and/or predictive power in forecasting stock returns using LightGBM.

#### EDB Corporate Analytics: Budget Forecaster

Sep 2021 - Mar 2022

- EDB awards grant incentives to companies investing in Singapore. Companies submit claims each year and EDB forecasts a budget for the Ministry of Finance.
- Used clustering and gradient-boosted regressor to predict the monies required for disbursement for the current and next financial years.  $R^2$  averaged >90% across customer segments in later years of the grant period.

#### IvyPrep Recommender Tool

Sep 2021 - Dec 2021

- IvyPrep is a college admissions consultancy. Built recommender tool to suggest safety and reach schools based on student preferences and credentials.
- Saved an estimated 2-4 hours of desktop research for every new client.

### WORK EXPERIENCE

#### Singapore Economic Development Board (EDB)

Manager (Corporate Analytics) / Account Manager (Healthcare Accounts Group)

Sep 2022 – Present

Senior Associate

Aug 2020 – Sep 2022

- Top performance appraisal for every year of assessment.
- 2023 COVID-19 Resilience Medal (Individual): for distinguished service.
- 2022 President's Certificate of Commendation (COVID-19) for distinguished service.
- 2020 MTI COVID-19 Recognition Award (Individual): for meritorious service.

*Corporate Analytics*

- Product co-Manager for EDB's in-house business analytics and data visualization tool.
- Driving analysis of EDB's investment pipeline to optimize resource allocation.
- Drove risk analysis of incentive recipients to ascertain risk of default.
- Forecasted disbursement budget needs using past claim patterns.

*Healthcare Accounts Group*

- Driving incentive structuring and negotiations for multimillion-dollar pharmaceutical and medtech investments in Singapore.
- Mediated international negotiations for the purchase and delivery of COVID-19 vaccines.

Management Associate

Aug 2019 – Aug 2020

#### IvyPrep Singapore

Tech Lead / Engineer (pro bono)

Sep 2021 – Present

- Tech lead for upcoming stealth product, utilizing LLMs and NLP.
- As engineer, built recommender tool to streamline solutioning process for clients.

### ADDITIONAL INFORMATION

Languages: English, Mandarin

Software Skills: Python, pandas, numpy, scikit-learn, SQL