

KUNDAN DALMIA

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EDUCATION

Singapore University of Technology and Design (SUTD)

- Bachelor of Engineering (Information Systems Technology and Design), Honours (Cum Laude)
- Dual Specialisation: Financial Technology & Artificial Intelligence

Singapore

May 16 - Sept 20

WORK EXPERIENCE

Kingsblade K.K. (Japanese Hedge Fund)

Technology Analyst

Singapore

Jan 20 - Sept 20

- Developed a live global intelligence web platform for financial trading, which leverages artificial intelligence to analyse financial news/data and provides traders with results in a visually appealing manner (heat map, news feed, widgets) to aid their decision-making process.
- Used a news API provider to feed in live financial news to the server, based on a multitude of factors given by traders - keyword(s) search, country published in, recency of article(s), and news source(s).
- Performed transfer learning on a pre-trained deep learning NLP model to analyse the sentiment of financial text, and displayed the sentiment (positive, neutral, negative) associated with each news article, which accelerated the execution of each trade by 7 minutes.

Singapore Airlines

Digital Innovation Intern (Software Developer)

Singapore

May 19 - Aug 19

- Developed a hybrid web-view application using Node.js, ejs and Swift (for iOS) to enable digitalisation of recording business card details upon scanning, and saving them directly into respective person's contacts.
- Performed Optical Character Recognition using Google Vision API in Node.js and Natural Language Processing using 'nltk' library along with my own classification algorithm in Python to categorise the details accurately.
- Deployed the iOS application for beta testing on TestFlight, which accelerated recording business card details by 15 seconds per card.

ACADEMIC PROJECTS & COMPETITIONS

Singapore University of Technology and Design

Claim-i-fly, Blockchain Developer (Smart Contract)

Singapore

Mar 20 - May 20

- Developed a decentralised web application which facilitates buying/selling of flight insurance and claiming it digitally with ethers (ETH) being the mode of payment.
- Designed a smart contract using Solidity on Remix IDE, running on the Ethereum Virtual Machine, that can successfully validate and verify transactions upon buying an insurance or claiming for an already existing insurance.
- Used Ganache as my personal Ethereum blockchain network, Metamask to keep a track of the digital transactions, SendGrid Mail API to automatically e-mail insurance details to the insurance owner, and CoinMarket API to convert SGD to ETH based on the market price.

Singapore University of Technology and Design

SUTDCoin, Blockchain Developer (Python)

Singapore

Jan 20 - Mar 20

- Worked in a team of 4 to design and implement a cryptocurrency called SUTDCoin using concepts from the Blockchain course at SUTD.
- Designed the entire blockchain network for SUTDCoin to allow students to transact using SUTDCoins, and allow miners to mine the blocks with successful transactions onto the blockchain network by demonstrating Proof-Of-Work (PoW).
- Leveraged on Bitcoin's Proof-of-Work concept to help facilitate the design of SUTDCoin's blockchain network.

Peeprade Investment Challenge, Winner

The Wolves of Somapah Road, Financial Analyst & Trader

New York City

Nov 19 - Dec 19

- Achieved the highest investment returns of 169.13% globally, beating the market index (S&P) by a margin of 165.16% at the Peeprade Investment Challenge sponsored by NASDAQ and University of Chicago, thereby emerging as the winner in the undergraduate category.
- Invited to the Investors Innovation Summit held at NASDAQ in New York City to pitch the investment strategy to investors.
- Targeted volatile and volumetric stocks with a high systematic risk in order to ensure maximum liquidity at the time of executing the trade. Used concepts learnt in the Investment Science course at SUTD to develop an investment strategy with 2 other teammates.

Singapore University of Technology and Design

WhatNext?, Machine Learning Developer (Python)

Singapore

Sep 19 - Dec 19

- Worked in a team of 3 to develop a text prediction machine learning model which suggests users with words to complete a sentence based on their texting behaviour by assigning probabilities to the words and tags at their respective position in a sentence.
- Used Hidden Markov Model (HMM) and Natural Language Processing (NLP) concepts to develop the model for suggesting the appropriate word with the highest probabilistic prediction score based on the previous word(s) and the overall sentiment of the sentence.
- Achieved an overall prediction accuracy of 97% during the testing phase, by optimising the weights of our model during training and validation.

Singapore University of Technology and Design

Master-Analysts, Financial Analyst

Singapore

Sep 19 - Dec 19

- Performed in-depth financial analysis on Mastercard's stock (NYSE: MA) and recommended a BUY decision.
- Leveraged extensively on Bloomberg Terminal to analyse and model quantitative data about Mastercard and its competitors.
- Analysed quantitative parameters and metrics such as Earnings Estimates, P/E ratio, Dividend Payout, Free Cash Flow, Intrinsic Value along with qualitative parameters such as global news, macroeconomic and microeconomic information before making the BUY decision.