KUNDAN DALMIA

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EDUCATION

Singapore University of Technology and Design (SUTD) **Singapore**
- Bachelor of Engineering (Information Systems Technology and Design), Honours (Cum Laude)   **May 16 - Sept 20**
- Dual Specialisation: Financial Technology & Artificial Intelligence

WORK EXPERIENCE

Kingsblade K.K. (Japanese Hedge Fund) **Singapore**
Technology Analyst **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 20 minutes on average.

Singapore Airlines **Singapore**
Digital Innovation Intern (Software Developer) **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 45 seconds per card.

ACADEMIC PROJECTS & COMPETITIONS

Singapore University of Technology and Design **Singapore**
Claim-i-fly, Blockchain Developer (Smart Contract) **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.

Peeptrade Investment Challenge, Winner **New York City**
The Wolves of Somapah Road, Financial Analyst & Trader **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 Peeptrade 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 **Singapore**
WhatNext?, Machine Learning Developer (Python) **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 **Singapore**
Q, Lead Android Developer **Sep 18 - Dec 18**
- Led a team of 6 to develop an Android application *Q*, with an aim to digitalise the queue system for stalls in food courts in Singapore.
- Q allows stall merchants to create and manage queues for their stalls, while customers can view and join these queues at their own convenience. The app notifies the customer when his/her turn is approaching.
- Used Java, Object-Oriented Programming, Android Development concepts extensively on Android Studio; used Google Firebase as our app's cloud database for the back-end.

Singapore University of Technology and Design **Singapore**
Bit Combat, Computer Engineer **Sep 18 - Dec 18**
- Worked in a team of 4 to create an arcade game in which two players compete against each other by moving around a 7x7 LED matrix and shooting at each other using buttons.
- Used concepts from the beta architecture of a von Neumann machine extensively to develop this game on a Field Programmable Gate Array (FPGA) Board (Mojo V3) that utilises a 16-bit ALU developed using Lucid on Mojo IDE.
- Bit Combat was chosen as the course's best project by the faculty and students, based on voting administered by the Office of Student Administration of SUTD, and will be showcased to the general public during future outreach events at SUTD.

European Innovation Academy **Turin, Italy**
GetTheFit, Chief Technology Officer **Jul 18 - Aug 18**
- Selected by the Entrepreneurship Centre to attend the European Innovation Academy- a startup accelerator and entrepreneurship program.
- Appointed as the Chief Technology Officer of a B2B startup 'GetTheFit'- an online marketplace for women to trade clothing, based on their specific body dimensions and style preferences.
- Developed an Android application as a prototype, incorporating various APIs while designing the app; used software development tools to help the marketing team create and roll out campaigns.