

NEIL SHAH

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EDUCATION

National University of Singapore

BSC. IN BUSINESS ANALYTICS, FIRST CLASS

HONOURS

Grad – MAY 2022 | Cum. GPA: **4.68/5.0**

Dean's List: AY19/20 Semester 2,

AY20/21 Semester 1

University Town College Programme

– Tembusu College

NUS Overseas College, BANDUNG -

INDONESIA, MAY 19 – AUG 19

SKILLS

• PYTHON • R • SQL • PYTORCH

• DJANGO • FLASK • TABLEAU • LOOKER

• REACT • JAVA • SPARK • TENSORFLOW

• VUE • ADOBE XD • AIRFLOW

PROJECTS

Machine Unlearning – DISSERTATION –

Developed an efficient unlearning algorithm with theoretical guarantees and direct applications.

AI Sense – CAPSTONE PROJECT –

Worked with ST Engineering to create a scalable system for model inference and transfer learning.

Cheatsheet Maker – INTUITION 2021 –

FIRST RUNNER UP - Web application that helps to create the most compactly packed cheat sheet from a series of screenshots using a modified bin packing algorithm and text detection.

Breast Cancer Prediction – LIFE HACK

NUS 2020 – **CHAMPION** - Developed an ensemble model using logistic regression and Resnet18 CNN model for breast cancer detection and a tableau dashboard to raise awareness.

NUS Planner –

Web application for NUS students, to provide a seamless online planner linked to the modules taken, using Vue.js front end and Firebase backend.

Calendar Bot –

Telegram bot that parses messages sent to it using NLP and adds the events to a user's Google Calendar.

ACTIVITIES

Sports

Participated in Inter College Game for Ultimate Frisbee and Dodgeball.

Debate

Co-President of Tembusu Debate Team, to organise weekly trainings and plan for competitions in Singapore and Malaysia.

EXPERIENCE

Workato | PRODUCT MANAGER | JAN 22 – PRESENT

- **Planned and enacted roadmaps** for multiple crucial softwares like Salesforce, Zendesk, Jira, and Marketo.
- **Coordinated with customer support** to identify bugs, workarounds and priority issues.

Carousell | DATA ANALYST INTERN | JUN 21 – AUG 21

- **Created multiple internal analytics dashboard** in Looker to allow the teams to track key business metrics and perform in depth analysis.
- **Modified data pipelines** to allow for easier creation on dashboards and to reflect new data metrics.

Shopee | DATA ANALYST INTERN | JAN 21 – JUN 21

- Worked on a **product pricing model** by analysing pricing and sales to and resulting price changes led to monthly revenue increase of 100k.
- Created a **sales forecasting model** for all products and major marketing campaigns in South East Asia, leading to 20% improvement on key metrics.
- Experimented and **modified replenishment logic** leading to a 10% reduction in inventory value.
- Standardised and **automated reporting workflows** using Pandas, Xlsxwriter and Airflow.
- Performed **database validation checks** and modified columns based on new business logic.

Visenze | MACHINE LEARNING ANALYST INTERN | AUG 20 – DEC 20

- **Curated specific datasets** and evaluated the various image recognition models against the current baseline, improving model performance by 2%.

NUS Fintech Society | MACHINE LEARNING ANALYST | AUG 20 – MAY 21

- **Developed a stock trading OpenAI gym** to allow the easy implementations and testing of various reinforcement learning algorithms.

Clinical Data Lab | DEEP LEARNING RESEARCH INTERN | MAY 20 – JUL 20

- Worked on **multi-task multi-optimisation algorithms** for deep learning.
- Integrated different state of the art models/optimizers (DCMF, Eposearch, MGDA, gCMF) for **multi-view heterogeneous data sources from research papers** and performed baseline experiments.
- Implemented machine learning models for predictions based on **healthcare data** (MIMIC 3).

National University of Singapore | TEACHING ASSISTANT | JAN 20 –

PRESENT

- **CP2106 Orbital**: Advised and evaluated 15 teams to develop products with sound software development principles.
- **IS4241 Social Media Network Analytics**: Performed data collection and feature engineering to craft 3 datasets for graph network visualisation & analysis with Gephi, Python & R.
- **Introduction to Python Workshop**: Conducted a 3 day workshop for freshmen.
- **C1231 Discrete Structures**: Conducted weekly tutorial for 20 students for discrete mathematics. Graded quizzes and assignments, alongside the Professor.
- **BT1101 Introduction to Business Analytics**: Weekly consultations and tutorial grading. Conducted weekly group coaching sessions for 10-12 students for the tutorial questions.

9cv9 Indonesia | BACK END DEVELOPER | MAY 19 – AUG 19

- Collaborated on a job search platform, built with Django and REST API to develop features like OAuth sign in for users, single click multi-platform job posting, resume parser, etc.
- Developed basic machine learning methods, allowing users to gain better job recommendations and allowing employers to find the right applicant based on the required skills.