Jet New

notesjet@gmail.com

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

B.Comp. in Computer Science
University Scholars Programme
Minor in Statistics
Grad. May 2023
CAP: 4.67 / 5.0

LINKS

Github:// **jetnew**
LinkedIn:// **jetnew**
YouTube:// **jetnew**

COURSEWORK

UNDERGRADUATE

Machine Learning
Intro to Artificial Intelligence
Software Engineering
Data Structures & Algorithms
Probability & Statistics
Programming Methodology I & II
(Teaching Assistant)

SELF-INITIATED

Causal Inference by **Brady Neal**
Reinforcement Learning by **UAlberta**
Deep Unsupervised Learning by **NUS**
Deep Learning for NLP by **NUS**
Machine Learning by **Stanford**
Databases and SQL Querying

SKILLS

Applications
Reinforcement Learning • Computer Vision • Natural Language Processing • Anomaly Detection
Languages
Python • Java • C++ • SQL
Frameworks
TensorFlow • PyTorch • Keras NumPy • Pandas • Matplotlib
Development
Jupyter • Git • Anaconda

ACTIVITIES

NUS Statistics Society
Google Developer Student Club
Advisory Singapore
Google Code in the Community

EXPERIENCE

NUS | Undergraduate Researcher

Nov 2020 - Present | Singapore
- Researching causal reinforcement learning under **Prof. Harold Soh** for Undergraduate Research Opportunities Programme (**UROP**).

GRAB | Intern, Machine Learning Engineer

May 2020 - Aug 2020 | Singapore
- Built **Simkit**, a framework for **generative and probabilistic modelling for reinforcement learning** in pricing problems, incl. GMDN, cGAN, BNN.
- Evaluated on industry datasets with implemented utilities, e.g. performance visualisation and empirical metrics, incl. multivariate KL & JS divergence.
- Presented at **La Kopi** @ Google Developer Space: Data Science.
- Tech: TensorFlow 2, TensorFlow Probability, Ax Bayesian Optimisation, Python

IMDA | Executive, Machine Learning

Nov 2018 - Jun 2019 | Singapore
- Developed an **anomaly detection algorithm** for predictive maintenance, deployed as client's main solution, securing a **$500K** project deal.
- Evaluated >10 time series anomaly detection techniques on client's dataset of 50K timestamps, incl. LSTM, Autoencoder, Holt-Winters.
- Tech: TensorFlow, Scipy, Numpy, Pandas, Matplotlib, Python

LEADERSHIP

NUS STATISTICS SOCIETY | Workshops Director

May 2020 – Present | Singapore
- Led team of 9 to deliver **>5 AI/ML workshops** to NUS students and working professionals in **Data Science SG**, with cumulative **>900** registrations.

SELECTED PROJECTS

YOU PLAY BALL, I PLAY BALL

NUS Computing Project Showcase | Nov 2020
- Researched **Bayesian multi-agent reinforcement learning** for Slime Volleyball, winning **1st prize** out of 78 participants.

THE CHOSEN ONE | Multi-Agent Reinforcement Learning

NTU iNTUition Hackathon | Oct 2019
- Built **game-playing AI** inspired by Multi-Agent Hide and Seek, winning **Best AI Hack** award out of 130 participants.

DRFAQ CHATBOT | Question Answering in NLP

Winter Project | Dec 2019
- Built a NLP Question Answering **chatbot** general-corpus architecture using Spacy, HuggingFace, ElasticSearch, Telegram Bot API, and hosted on Heroku.

ACHIEVEMENTS

2020	1st prize out of 78 participants	NUS Computing Project Showcase
2020	Top 10 finalists out of 54 teams	HackAsia Global Hackathon
2019	Best AI Hack out of 130 participants	NTU iNTUition Hackathon
2017	Top 5 Good Performance Award	Innova Junior College