Parthipan Kavin

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Portfolio Website: https://kpkavin04.github.io/portfolio_website/

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE (NUS)   Present
Bachelor of Computing in Computer Science with Honours, Second Major in Statistics
- Grade Point Average: 4.50/5.00
- Undertaking University Town College Programme in Residential College 4

AI4I® – Foundations in AI Certification, AI SINGAPORE   Jul 2024
IBM DATA SCIENCE Specialisation   Jan 2024
- Predicted success rate of SpaceX rocket landings with an **accuracy of 91.6%** deploying **decision tree models** as part of capstone completed

TEMASEK JUNIOR COLLEGE (TJC) GCE Singapore A-Levels   Jan 2020 - Dec 2021
- Awarded TJC ACE Award, TJC Academic Award, TJC Certificate of Merit (CCA Award), SINDA Excellence Award

RELEVANT EXPERIENCE

COMFORT DELGRO Data Science Intern   Sep 2025 - Dec 2025
NUS FINTECH SOCIETY Machine Learning Analyst   Aug 2024 - Present
- Currently researching and implementing the **RAG component** in a **Financial Literacy AI Tutor** project that aims to facilitate financial education access for underprivileged people
- Predicted stock prices for the next 30 days leveraging historical data and **Long Short-Term Memory neural networks** to model time-series data and delivered via FastAPI

QUADRANT360 Cyber Security Intern   Jan 2024 - Apr 2024
- Documented detailed vulnerability assessment reports for client companies thus freeing full time staff by 2 days each month allowing further business development
- Co-developed a controlled demonstration of malicious software-based attacks for client's educational purpose, increasing awareness of data breaches through use of QR codes
- Earned eLearnSecurity Junior Penetration Tester(eJPT) by completing comprehensive training in intermediate-level penetration testing and a rigorous 24-hour hands-on lab exam

SINGAPORE POLICE FORCE, TRANSCOM Deputy Team Leader   Dec 2022 - Nov 2023
- Led a dynamic team of 100+ officers in safeguarding Singapore's Public Land Transport System as an Inspector
- Strategically planned operations, managed crisis responses, oversaw personnel, and handled administrative functions
- Improved efficiency of documentation processes by 30% utilising Excel skills

PROJECTS AND HACKATHONS

Rizztaurant   Aug 2025
- Engineered a **full-stack React Native mobile app** that streamlined dining decisions through a Tinder-style swiping interface, cutting user decision time and improving engagement with personalized profiles
- Enhanced user experience and retention by integrating a **Groq LLM chatbot** for intelligent recommendations and delivering advanced search, filtering, and responsive **gesture-based UI**

SAFETY FIRST BrainHack CODE_EXP 2025   Jul 2025
- Co-developed a centralised platform for crisis reporting in Singapore making use of PyTorch for **image classification** and an **AI chatbot** serving as a 24/7 survival guide
- Finalist out of 150+ teams

NUS DATATHON 2025   Jan 2025
- Achieved a **precision of 73%** in predicting required columns with use of **Bidirectional Encoder Representations from Transformers(BERT)** and **Random Forest Classifier** models
- Improved precision by 16% through Data Cleaning, Feature Selection and Feature Engineering

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, R, SQL, HTML, CSS
Libraries and Frameworks: Matplotlib, Pandas, NumPy, Scikit-Learn, Tensorflow, Seaborn, Folium, FastAPI, OpenCV, Streamlit, React, Tailwind CSS
Database Management: MySQL, MongoDB, Firebase, Supabase
Machine learning: Supervised and Unsupervised learning, Regression, Classification, Natural Language Processing(NLP)
Cybersecurity: Metasploit, Nessus, Nmap, Endpoint Detection with SentinelOne
Tools & Platforms: Tableau, Microsoft Office Suite (PowerPoint, Word, Excel)

CO-CURRICULAR ACTIVITIES

NATIONAL UNIVERSITY OF SINGAPORE
- RC4 Draco Events Committee - Spearheaded a VIA event to Mercylight animal sanctuary
- RC4 track team - Achieved 3rd placing in the 4x1.6 km event
- NUS Fintech Society, Machine Learning Department Technical Analyst

NATIONAL SERVICE CCAs
- 1st Runner Up MHA AWS DeepRacer Competition virtual race - Achieved effective automation of 1/18th scale race car via reinforcement learning model
- Dragon Boat - Rower in SPF Transport Command(Transcom) Dragon Boat Team

TEMASEK JUNIOR COLLEGE
- Talent Development Programme - Participated in International Student Leadership Congress (ISLC) to cultivate cross-cultural interactions and acquire industry insights on climate change
- Students' Council-Led as Vice-House Captain, overseeing planning and execution of college initiatives, including J1 Orientation, a mass sunset picnic (Unwind 21) and facilitating various leadership camps
- Delta Cheer Leader - Stepped out of my comfort zone to join a 12-member house cheerleading team, emphasising dance routines and overcame personal reservations regarding dancing