Sarswat Aryan

</> | GitHub | LinkedIn

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE | Bachelor of Computing in Computer Science
| University Scholar Programme (Senior Honour Roll)

Artificial Intelligence Pathway | Expected Grad 2023 | Singapore

EXPERIENCE

AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH (A*STAR) | Student Attachment

Aug 2022 – Current | Singapore

Currently working with researchers at A*STAR to improve the domain adaptation for the detection of deepfakes and consequently improve the generalisation of classifying deepfakes.

NATIONAL UNIVERSITY OF SINGAPORE | CS3244 (Machine Learning) Teaching Assistant

Aug 2022 – Dec 2022 | Singapore

Taught a class of 15 students weekly about various Machine Learning topics. Mentored 3 project groups in their final group project. Involved in setting and grading assignments, exams and final projects.

MINISTRY OF COMMUNICATION AND INFORMATION | Technology Intern

May 2022 – Aug 2022 | Singapore

Worked with supervisor to create a prototype which uses Blockchains for ensuring the provenance of content online. Learned new frameworks such as React and Node.js. Performed a literature review on deepfakes and research on improving the generalisation capability of detecting deepfakes, later converted this project into my Final Year Project.

SINGAPORE ARMED FORCES | Combat engineer

Aug 2017 – Aug 2019 | Singapore

Executed real-time peacekeeping operations for Singapore performing crucial tasks in the safekeeping of the country. Co-ordinated missions in small teams of four to de-escalate threats to the nation. Developed essential skills such as analytical problem solving from tackling high-pressure situations during training exercises.

CO-CURRICULAR ACTIVITIES AND PROJECTS

REINFORCEMENT LEARNING PROJECTS | TEAM MEMBER

Dec 2020 – May 2021

Researched Different algorithms like Alpha-Zero to be able to create a novel AI to master the game of Santorini. Researched different ways to adapt the Alpha-Zero algorithm to better learn how to master games. Developed a good grasp of machine learning frameworks such as PyTorch and scikit-learn.

NUS UAV TEAM | TEAM MEMBER

Aug 2020 – Dec 2020

Worked with senior researchers in NUS to understand the intricacies of flight. Qualified for the AIAA DBF Competition, competed against the top 50 universities in the world.

NUS ROVER TEAM | ROBOTIC ARM TEAM

Aug 2019 – Jan 2019

Teamed up with other undergraduate and graduate students to engineer a design for a robotic arm to be attached to a rover. Trained under experienced seniors to effectively utilise and implement CAD softwares such as Solidworks and Fusion 360

LANGUAGES

PROGRAMMING

Over 5000 lines:
• Python • Java • C++ • LaTeX
Deep Learning
• PyTorch • TensorFlow • Keras
Miscellaneous
• React • PostGreSQL

SPOKEN & WRITTEN

Native fluency:
English
Reading fluency:
French, Hindi