Shannon How

• +44(0)7787871025 • shannonhsq@gmail.com • https://shannonhsq.github.io

EDUCATION

UNIVERSITY OF SOUTHAMPTON   United Kingdom
PhD in Machine Intelligence for Nano-Electronic Devices and Systems   Sept 2021 - present

NATIONAL UNIVERSITY OF SINGAPORE   Singapore
B.Sc (Hons) in Data Science and Analytics   Aug 2016 - Jun 2020

DELFT UNIVERSITY OF TECHNOLOGY   the Netherlands
Student Exchange Program (SEP) at Faculty of Electrical Engineering, Mathematics and Computer Science   Feb 2019 - Jul 2019

WORK EXPERIENCE

DELOITTE   Singapore
Data Scientist   Oct 2020 - Sep 2021
• Researched, surveyed and presented data-centric methods and solutions for financial crime and fraud detection
• Developed interactive dashboards tailored for trade breaks and leveraged insights to formulate strategic recommendations for a Singapore-based FinTech firm.
• Employed advanced machine learning methodologies to identify and analyze malicious network traffic data for a leading Indonesian telecommunications company

ROLLS-ROYCE   Singapore
Future Intelligence Technologies Intern   Jan 2020 - May 2020
• Contributed to the submission of a paper for Elsevier Knowledge-Based Systems by designing, conducting experiments and analyzing the results to compare feature selection and gradient boosting methods
• Researched existing explainable Artificial Intelligence (AI) methods that can be implemented for engineering purposes
• Developed a method to integrate trust scores with Individual Conditional Expectation plots for machine learning models to determine the confidence and trust of predictions for specific instances

DAVINCI INNOVATION LABS   Singapore
Programming Instructor   May 2018 - Jul 2018
• Taught primary school children programming skills in Python with robots

SKILLS

• **Programming Languages:** Python, R, SAS, SPSS, MATLAB, Java, SQL, Tableau
• **Languages:** English (Proficient), Chinese (Proficient), French (Basic)

CO-CURRICULAR ACTIVITIES

NUS BOXING   Singapore
Chairperson   Aug 2018 - Jun 2020
• Efficiently lead a group of committee members to manage the operation of the club and training sessions
• Successfully spearheaded and assisted in the planning and execution of events such as Student Life Fair and Exhibition Fight
• Initiated a volunteer outreach program with Glpyh Asia to expose children from lower income families to Boxing

STUDENT COUNCIL   Singapore
Secretary   Mar 2011 - May 2013
• Successfully planned events such as Fundraising, Teachers' day concerts and camps
• Administered council meetings and supported the rest of the committee members in their duties

VOLUNTEER EXPERIENCE

• TOUCH Young Arrows   Aug 2017 - Sep 2021
• NUS Overseas Community Involvement Programme in Chiang Mai, Thailand   Mar 2018 - Jul 2018
• Youth Corps Singapore   May 2017 - Jul 2017

ADDITIONAL INFORMATION

• Awarded a Bronze Medal in the Singapore Mathematical Olympiad 2010
• Awarded Edusave Scholarships and Good Progress from 2010 - 2014
• Awarded the Half-Colours for NUS Boxing in 2020
• Awarded the Best Student Paper at the International Symposium on the Tsetlin Machine in 2023
• Enjoys reading, running, swimming, bouldering and team sports - represented the Faculty of Science in soccer and captained the female swimming team in the annual NUS Inter-Faculty Games