

# HENG YI SHENG

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*LinekdIn: Heng Yi Sheng | <https://bit.ly/3qWAsPc>*

Data Science postgraduate student at the University of Bristol who is passionate about Machine Learning and Artificial Intelligence. My undergraduate final year project was published at Future Technologies Conference 2022, held in Vancouver, Canada and currently seeking a graduate opportunity, specifically the data scientist or data analyst role.



## ACADEMIC HISTORY

### University of Bristol | MSc Data Science

Postgraduate Study | Sep 2022 - Present

- **Recipient of the Think Big Scholarship**
- **Appointed as a Postgraduate Student Ambassador**
- **Modules:** Technology, Innovation, Business and Society, Large-Scale Data Engineering, Statistical Computing and Empirical Methods, Introduction to Data Analytics, Advanced Data Analytics, Introduction to Artificial Intelligence, Data Science Mini-Project
- **Dissertation:** Content Rating Classification in Fan Fiction using Active Learning and Explainable Artificial Intelligence (XAI)

### Asia Pacific University of Technology & Innovation - Staffordshire University (Dual Degree Programme) | BSc (Hons) Computer Science with a Specialism in Data Analytics

Undergraduate Study | Feb 2019 - May 2022

- **First Class Honour**
- **Two Awards: The University Prize for Best Project and The University Prize for Best Student**
- **Final Year Project:** Machine Learning and Explainable Artificial Intelligence (XAI) in Credit Risk Modelling
- My final year project was published at the Future Technologies Conference 2022 ([See Page 2](#))
- Organizing committee for Earth Hour, International Cultural Night, Sports Carnival and Charity Bazaar during my tenure as Student Representative Council

### Asia Pacific University of Technology & Innovation | Foundation in Computing & Technology Foundation Programme | Feb 2018 - Feb 2019

- Foundation program in basic computing
- **CGPA:** 3.84 of 4.0
- **Awards Received:** Academic Excellence Award and Leadership Excellence Award



## KEY SKILLS

### Hard Skills

#### Programming Languages

- Python, R, Java, C, C++, SQL (Stored Procedure, Triggers & Encryption)

#### Software / Tools / Services

- Github, Amazon Web Services (AWS), Power BI, Tableau, Amazon Athena, SAS Studio / Enterprise Miner, Google Analytics, Google Search Console, Screaming Frog, Ahrefs, Similar Web, Search Engine Optimization (SEO), Wordpress (Web Design), Microsoft Office (Words, Excel, PowerPoint), DaVinci Resolve (Video Editing Software)

#### Knowledge

- Machine Learning, Artificial Intelligence, Hadoop & Spark, Data Analysis & Visualisation, Natural Language Processing, Data Warehousing, Data Structures & Algorithms, Probability & Statistics, Cloud Computing (AWS)

#### Soft Skills

- Problem Solving, Decision Making, Leadership, Analytical Skills, Adaptability, Communication Skills, Teamwork, Critical Thinking, Project Management (PMBOK 6th Edition)

### Language (Spoken & Writtten)

- English, Bahasa Malaysia (Malay), Chinese (Mandarin), Chinese (Cantonese)



## RELEVANT EMPLOYMENT & WORK EXPERIENCE

### iPrice Group Sdn. Bhd.

Position: Business Intelligence Intern | Duration: 5 months (Internship, March 2021 - July 2021)

#### Responsibility:

- Assisted in weekly traffic report, weekly business performance deck, sprint review and monthly report
- Played a role in writing analysis highlights about iPrice weekly web traffic and performances
- Helped iPrice to identify opportunities to enhance their business performances
- Being exposed to SEO tools such as Screaming Frog, Ahrefs, SimilarWeb, Google Analytics and Google Search Console
- Some of my notable mini projects include script automation, data cleaning & manipulation, ad-hoc analysis



## PUBLICATION

### **Proceedings of the 13th International Conference on Pattern Recognition Applications and Methods (ICPRAM) 2024, Volume 1**

**Scitepress**

**Authors:** Yi Sheng Heng & Dr. James Pope

**Title of Paper:** Content Rating Classification in Fan Fiction Using Active Learning and Explainable Artificial Intelligence

**Conference Title:** 13th International Conference on Pattern Recognition Applications and Methods (ICPRAM) 2024

**Conference Date:** 24-26 February 2024

**Location of Conference:** Rome, Italy

**Conference Website:** <https://icpram.scitevents.org>

**Status:** Paper has been published.

### **Proceedings of the Future Technologies Conference (FTC) 2022, Volume 1 - Lecture Notes in Networks and Systems**

**Springer Series**

**Authors:** Yi Sheng Heng & Dr. Preethi Subramanian

**Title of Paper:** A Systematic Review of Machine Learning and Explainable Artificial Intelligence (XAI) in Credit Risk Modelling

**Conference Title:** Future Technologies Conference (FTC) 2022

**Conference Date:** 20-21 October 2022

**Location of Conference:** Hybrid Event | Vancouver, Canada

**Conference Website:** <https://saiconference.com/FTC>

**Status:** Paper has been published.



## ACHIEVEMENTS & INTERESTS

- **RHB Get Your Hack On: Data Edition 2022** | AWS Special Award + Top 15 Finalist (Group Leader)
  - AWS Special Awards (RM1,000 cash prize) are awarded to 5 teams who perform the best in each challenge, courtesy of AWS
  - A Virtual Datathon organized by RHB Bank Berhad in collaboration with Amazon AWS Malaysia and JomHack to solve data science related challenges by creating functional algorithms, meaningful insights or exciting applications using RHB datasets
  - Featured in **"The Star"** Newspaper Media: <https://www.thestar.com.my/news/education/2022/03/13/trio-triumph-at-datathon>
- **MNNF Network Final Year Project & Postgraduate Research & Innovation Poster Competition** | Gold Award
  - Competed in Series 2/2022 under the category of Degree Final Year Project Science, Technology, Engineering and Mathematics and was awarded the Gold Award
- **AIA Malaysia Hackathon 2022** | Participant (Group Leader)
  - Our group has been pre-selected amongst many to participate in the AIA Hackathon 2022
  - Our group built a solution that supports mental wellbeing for Malaysians whilst potentially disrupting the future of insurance
- **Shopee Code League 2021** | Participant (Group Leader)
  - 3 weeks coding challenge which consists of data analytics and data science related problems
- **PYPRO Competition 2021** | Participant
  - Python programming competition organized by Asia Pacific Analytics Club
- **Machine Learning A-Z: Hands-On Python & R in Data Science (2021)** | Udemy Online Course
- **Microsoft Power BI Desktop for Business Intelligence (2021)** | Udemy Online Course
- **Tableau Crash Course: Build and share a COVID-19 Dashboard (2020)** | Udemy Online Course



## POSITIONS AND RESPONSIBILITIES

### **Postgraduate Student Ambassador**

University of Bristol | October 2022 - present

### **Student Marshal**

APU Student Affairs | September 2020 - August 2022

### **Treasurer**

Student Activities & Representative Council (SARC) 2019 | January 2019 - December 2019