

HUI XIA OOI

MAXIS SCHOLAR 2023

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EDUCATION

Monash University Malaysia

Feb 2024 - Present

Bachelor of Computer Science in Data Science

Units taken: Theory of Computation, Data Visualization, Modeling for Data Analysis,, Database, Mobile App Development, Algorithm & Data Structure

EXPERIENCE

Monash University Malaysia

Mar - June 2025

Class Assistant – FIT1043: Introduction to Data Science

- Supported students in Python programming labs (Jupyter Notebook) covering data wrangling, visualization, and introductory machine learning.
- Addressed course-related queries and provided guidance both in class and on the e-learning platform to enhance student learning outcomes.

PROJECTS

NutriTrack – AI Nutrition Tracker App

Kotlin, Android Studio

- Developed a full-stack web application that tracks users' daily nutrition using real-time food API data and interactive analytics dashboards.
- Designed database models and implemented user authentication, ensuring efficient data storage, secure login, and seamless user experience.

EY Open Science AI & Data Challenge Program

Python, scikit-learn, Geospatial Analysis

- Developed a machine learning model to predict urban heat island hotspots using environmental and geospatial data.
- Visualized insights to support data-driven recommendations for sustainable urban planning and climate resilience.

Lana Del Rey Dashboard

Tableau, Python, Excel

- Developed an interactive Tableau dashboard analyzing Lana Del Rey's discography and lyrical sentiment.
- Implemented dynamic filters and storytelling visuals to highlight emotional patterns and thematic evolution across albums.

British Airways Review Analysis

Tableau, Data Visualization

- Analyzed 1,000+ British Airways customer reviews to identify key drivers of passenger satisfaction and areas for service improvement.
- Built an interactive Tableau dashboard with sentiment-based visualizations, filters, and charts to enhance stakeholder understanding of review trends.

Run Monash – Event Data Analysis

SQL, Data Querying, Aggregation

- Analyzed Monash running event data to explore participation and performance trends across gender, distance, and year.
- Created SQL queries and visual summaries to support event organization and community engagement strategies.

Tic-Tac-Toe AI Game

Python, Minimax Algorithm

- Implemented an AI player using Minimax with alpha-beta pruning to ensure optimal gameplay and demonstrate decision-tree optimization.
- Designed an interactive console-based interface showcasing algorithmic reasoning and real-time performance.

SKILLS

Languages: Python, R, SQL, Java, JavaScript, HTML, CSS, Kotlin

Technologies: Pandas, NumPy, Matplotlib, Power BI, Tableau, Vega-Lite, Jupyter Notebook, PyTorch, Google Cloud Platform (GCP)

Development Tools: Git, Linux, Bash, MongoDB, Oracle, Android Studio, RStudio, Visual Studio Code, Google Colab

EXTRACURRICULAR ACTIVITIES:

Female in Tech Malaysia

- Joined mentorship programs and networking events to connect with industry leaders and gain insights into tech careers.

Monash Analytics Club

- Participated in data challenges and workshops, improving Python, SQL, and visualization skills through teamwork.

Monash Tennis Club

- Played in teams and social matches to build discipline, strategy, and collaboration.

Google Developer Group Kuala Lumpur

- Attended AI, cloud, and mobile workshops to stay updated and apply new technologies in personal projects.