




# HUI XIA OOI

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## EDUCATION

### Monash University Malaysia

Feb 2024 – Present

*Bachelor of Computer Science in Data Science*

Some electives taken: Algorithm & Data Structure, Database, Mobile App Development, Data Visualization, Modelling for Data Analysis

## EXPERIENCE

### Monash University Malaysia

Mar - June 2025

*Class Assistant – FIT1043: Introduction to Data Science*

- Assisted students during lab sessions with Python programming using Jupyter Notebook, data wrangling, and basic machine learning tasks.
- Handled students' enquiries on the course in class and on e-learning platform.

## PROJECTS

### British Airways Review Analysis Tableau, Data Visualization

- Identified key drivers of passenger satisfaction, enabling targeted service improvements by analyzing 1,000+ British Airways customer reviews using Tableau.
- Built an interactive dashboard that increased stakeholder understanding of review trends, through charts, filters, and sentiment-based visualizations.

### Run Monash – Event & Fundraising Database MongoDB, Oracle SQL Developer

- Created a database system to manage events, teams, and fundraising analytics for a university running carnival.
- Designed schema using normalization principles and handled mixed SQL + NoSQL operations for complex queries.

### NutriTrack – AI Nutrition Tracker App Kotlin, Android Studio

- Enabled real-time AI feedback on nutrition intake, improving user dietary awareness by integrating a custom-built API with Android features for input and tracking.
- Designed an intuitive mobile interface that improved user engagement, using Android Studio's material design components.

### Business Analytics Case Study R, RStudio

- Analyzed a struggling company's market and operational challenges using a real-world dataset in R, applying data wrangling, exploratory analysis, and visualization techniques.
- Developed an interactive RShiny dashboard to present insights and data-driven recommendations, improving decision-making strategies.

### EY Open Science AI & Data Challenge Program Python, Tableau, Pandas

- Developed a machine learning model to predict urban heat island hotspots using Python, scikit-learn, and geospatial data analysis.
- Created visualizations to present findings, supporting data-driven recommendations for sustainable urban planning.

## SKILLS

**Languages:** Python, Java, SQL, R, HTML

**Technologies:** Pandas, PyTorch, Jupyter Notebook, Tableau, Google Cloud Platform

**Development Tools:** Git, Linux, Bash, MongoDB, Oracle, Android Studio, RStudio

## EXTRACURRICULAR ACTIVITIES:

- Female in Tech Malaysia** – Joined mentorship programs and networking events to grow industry connections and gain insights from industry leaders.
- Monash Analytics Club** – Participated in data competitions and workshops, enhancing skills in analytics, visualization, and teamwork.
- Monash Tennis Club** – Engaged in competitive and social matches to build discipline, strategy, and collaboration.
- Google Developer Group Kuala Lumpur** – Attended tech meetups and workshops on AI, cloud, and mobile development, applying knowledge in personal projects.