# AYESHA RANA

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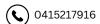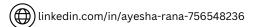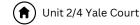## PROFILE

Highly motivated second-year Computer Science student majoring in Data Science at Deakin University. Possess strong skills in data analysis, business analytics, and algorithm development, demonstrated through successful projects. Seeking a summer internship to apply academic knowledge in a practical setting, contribute to innovative projects, and gain valuable industry experience. Known for my analytical mindset, attention to detail, and ability to collaborate effectively within a team

## EDUCATION

- **AMERICAN NICARAGUAN SCHOOL**
  *GPA: 3.95*
  *March, 2022*

- **DEAKIN UNIVERSITY**
  *Bachelor of Computer Science*
  *February, 2023 - November, 2025*
  *WAM: 91.563*
  Burwood, Victoria

  - Relevant Coursework: Data Structures and Algorithms, Database Systems, Computational Intelligence, Business Analytics, Data Wrangling, OOP, Data Science Concepts

## PROJECTS

- **WHEELCHAIR MAP NAVIGATION SYSTEM**
  Developed a wheelchair map navigation system for Truganina using Python.
  Implemented Dijkstra's and A* algorithms to find the shortest path.
  Added constraints for real wheelchair users, such as slopes.
  Compared different heuristics and evaluated the performance of both algorithm

- **STACK OVERFLOW USER INTERACTION ANALYSIS**
  Conducted a deep analysis using data wrangling techniques and visualization on Stack Overflow data.
  Investigated user interactions, popular search topics, user demographics, and trends.

- **GENDER INEQUALITY AND HDI ANALYSIS**
  Performed an in-depth analysis of gender inequality and Human Development Index (HDI) across countries using Excel.

- **NHANES DATA ANALYSIS AND VISUALIZATION**
  Analyzed NHANES survey data on depression, diabetes, alcohol consumption, and physical activity.
  Created interactive visualizations using Bokeh.

## TECHINCAL SKILLS

- Programming Languages: Python, C#, SQL, C++
- Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Bokeh
- Database Management: MySQL
- Tools & Platforms: Jupyter Notebooks, Visual Studio, Google Colab, Excel, Tableau, Power BI

## ACHIEVEMENTS

- Student Excellence Award (Deakin, 2023)
  - Awarded to the highest-achieving first-year IT student at the Burwood (Melbourne) Campus.
- Academic Excellence Award (ANS, 2022)
- Academic Excellence Award (ANS, 2021)

## LANGUAGE

- English (Fluent)
- Urdu (Native)