

- SDG: Goal 4 – Quality Education
- Problem: Graduate Employability
- Visualization Technique: Bar Chart

1. Content

a) Problem Statement

One problem that has been identified in the context of higher education in Malaysia is the issue of graduate employability. Despite a significant increase in the number of tertiary education institutions in the country, there is a mismatch between the skills and knowledge that graduates possess and those that are in demand in the job market. This has led to a situation where a significant proportion of graduates find themselves unemployed or underemployed, despite having obtained a degree or other qualifications. Addressing this issue will require a concerted effort from universities, industry, and policymakers to ensure that education is relevant and responsive to the needs of the economy and society.

b) Technical description of the proposed visualization technique

A bar chart, also known as a bar graph, is a data visualization tool used to represent categorical data using rectangular bars. The length or height of each bar is proportional to the value it represents.

The chart typically consists of a horizontal or vertical axis representing the categories being compared, with the bars positioned at intervals along the axis. The height or length of each bar corresponds to the quantity or frequency of the category it represents.

Bar charts are commonly used to show comparisons between discrete categories or to display changes in data over time. They can be simple or complex, with multiple bars or groupings of bars representing different sub-categories or variables. Bar

charts can be useful for visualizing data in a way that is easy to understand, even for those who may not be familiar with the specific details of the data being presented.

- c) Profile of the targeted stakeholders**
- d) Justification of the value proposition of your proposed visualization for the targeted stakeholders.**
- e) Illustration (sketch/drawing/prototype) of visualization.**
- f) Information of requirements on technical (data, software, skills etc), financial and TIME to develop the visualization.**
- g) Justification of the chosen tools.**
- h) Project time-line (Gann't chart etc).**