

Dashboard Approach: Enhancing Local Workforce Development Through Data-Driven Decision-Making

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Introduction

In the pursuit of sustainable economic growth and development, the role of education and industry alignment cannot be overstated. By employing data-driven insights, this study tackles the need to bridge the gap between education and employment demands. The goal is to address the issue of particular courses being underrepresented in the local educational scene, which has a negative impact on the availability of trained employees for vital industries. The motivation for this study stems from observation that some courses may be neglected, potentially leading to a mismatch between the demands of critical businesses and the skills available in the workforce.

Statement of the Problem/Objectives

General Objective: The underrepresentation of courses in the local educational area has a significant impact on the availability of skilled people for critical industries.

The objectives of this dashboard are:

- To identify which are the most and least preferred courses in every city.
- To provide demand and impact of underrepresented courses.
- To raise awareness of the issue of underrepresented courses among students, parents, and educators.
- To encourage more students to pursue underrepresented courses.

Solution/Results and Discussion:

The proposed solution involves the development of an interactive dashboard that transforms complex data into accessible insights. The dashboard shows the following:

- Chart showing the number of graduates for each course in every city.
- Chart showing the ranking of each city in each city pillar.
- Chart illustrating the city's ranking in Innovation compared to other factors (Economic Dynamism, Government Efficiency, etc.).
- Charts comparing the number of graduates in specific courses across cities.

Through this dashboard, stakeholders can get a comprehensive overview of educational trends, the connections across disciplines and sectors, and possible workforce concerns. The dashboard aids in identifying likely causes of the issue, such as a lack of knowledge or insufficient advertising of particular courses, by giving a visual depiction of these important factors.

Conclusion:

In an easily accessible data, leveraging its potential for informed decision-making is critical. The dashboard presented here is a critical tool for city officials, educational institutions, and students to work together to address the issue of skills mismatch and stimulate innovation. The dashboard analytics enable proactive steps in promoting certain courses, overcoming workforce gaps, and helping the city and province to prosper economically while nurturing its educational environment.

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