**Report on Analysis of World University Rankings**

**1. Introduction**

This report presents an in-depth analysis of factors that influence world university rankings. The analysis is based on data from Kaggle, spanning from 2016 to 2024. The objective is to identify key trends, the top-ranking universities, and the factors that contribute to their rankings.

**2. Data Source and Preparation**

The data used for this analysis was obtained from Kaggle, covering university rankings from 2016 to 2024. The data includes various metrics such as student population, international student population, overall scores, and other relevant factors that affect university rankings.

**3. Analysis Questions**

The analysis sought to answer the following questions:

1. Which university has the highest student population?
2. Which countries have the most international student population?
3. How is the overall score for a university affected by factors like teaching quality and research?
4. What is the trend in student and international student populations over the years?
5. What are the statistics for Canadian universities?

**4. Visualization and Findings**

**4.1. Bar Chart Analysis**

* **Top 10 Countries by International Student Population:** The United Kingdom tops the chart with approximately 596,570 international students, followed by the USA with 475,520 students, and Australia with 258,600 students.
* **Top 10 Universities by Student Population:** Tribhuvan University has the highest student population with 482,540 students, followed by Alexandria University and Al-Azhar University. Anadolu University has the lowest enrolment among the top 10.

**4.2. Line Chart Analysis**

* **Rank Changes Over Time (2016-2024):** The analysis shows that Oxford University consistently held the 1st position from 2017 to 2024. Imperial College London improved its rank from 10th to 8th in 2024, while Yale University saw a decline from 9th to 10th position.

**4.3. Treemap Analysis**

* **Top Universities by Overall Score:** Oxford University achieved the highest overall score of 98.5, followed by Stanford University (98.0) and Massachusetts Institute of Technology (97.9).

**4.4. Linear Trend Line**

* **Research Quality vs. Overall Score:** The analysis indicates a strong relationship between research quality and overall score, emphasizing the importance of research in university rankings.

**4.5. Forecasting**

* **Student Population Forecast for 2025:** The forecast suggests a continued increase in student population, reflecting a growing demand for higher education globally.

**4.6. Ranking and Map Chart**

* **Top 10 Canadian Universities:** The University of Toronto ranks highest in Canada with an overall score of 88.64. The map chart shows that the USA has the largest international student population, with 475,523 students.

**4.7. Horizontal and Vertical Bar Charts**

* **Canadian Universities' Student Population:** The University of Toronto has the largest student population (79,282 students), with 21% being international students. The University of British Columbia has the highest percentage of international students (34%).

**5. Conclusions**

The analysis successfully answered the proposed questions:

1. **Highest Student Population:** Tribhuvan University.
2. **Countries with Most International Students:** United Kingdom.
3. **Overall Score and Influencing Factors:** Research quality significantly impacts overall scores, with most top universities excelling in this area.
4. **Trends Over the Years:** Student populations have steadily increased, with forecasts predicting continued growth.
5. **Canadian University Statistics:** The University of Toronto leads in overall score and student population.

This analysis highlights the factors that influence world university rankings and provides insights into how institutions can improve their standings. The use of Tableau facilitated a detailed and visually compelling analysis, making the data more accessible and actionable.