

FIT5147 Project Proposal S2 2020

QS World University Rankings

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QUESTIONS

1. What factors other than rank is more desirable when deciding the quality of a University?
2. How do Universities compare in terms of Academic Reputation, Employer Reputation, Faculty to Student Ratio, Number of Citations per Faculty, International Faculty, International Students in QS factor classification? Which University tops in each of the specific factors? What is the correlation between a combination of these factors and how it affects the rank?
3. Which Universities are best suited for different individuals in terms of classification factors such as institution's size, subject range, research intensity, age, and status? How do these factors correlate with 6 main factors mentioned above to influence rankings?

Example: Is there a correlation between institution size and number of international students?
Is there a relationship between age of the university and its reputation?

DATA SOURCE

- These files contain rankings of around 1000 universities for the years 2020, 2019, and 2018 based on 6 factors included by QS for their ranking framework along with a few other classification factors.
- Kaggle link for dataset - <https://www.kaggle.com/divyansh22/qs-world-university-rankings>

DATA DESCRIPTION

- Tabular data: 1K rows x 22 columns. It has simple text in the form of ".csv"
- This dataset contains rankings of the world universities as maintained by Quacquarelli Symmonds. QS is a British think-tank company specializing in the analysis of higher education institutions throughout the world.
- QS uses **6 factors** for their ranking framework viz. **Academic Reputation, Employer Reputation, Faculty to Student Ratio, Number of Citations per Faculty, International Faculty, International Students**. Another feature included in this data was **Classification** (which is not used for ranking) which included the **institution's size, subject range, research intensity, age, and status**.