

# Analyzing International Education Costs dataset

Yelyzaveta(Liza) Luizova

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## Exploratory analysis of International Education Costs dataset

### Introduction

International Education Costs is a dataset taken for an exploration from kaggle (reference: <https://www.kaggle.com/datasets/adilshamim8/cost-of-international-education/data>). This dataset is a summary of international fees for universities based on countries, cities, tuition costs, various programs and living expenses.

### Data:

Reference: <https://www.kaggle.com/datasets/adilshamim8/cost-of-international-education/data> Sorted data by Columns: Country, City, University, Program, Level, Duration Years, Tuition(USD), Living Cost Index, Rent(USD), Visa fee(USD), Insurance(USD), Exchange rate.

### Packages needed to load:

```
tinytex::install_tinytex() install.packages("dplyr") install.packages("ggplot2") library(dplyr) library(ggplot2)
```

### Import the data:

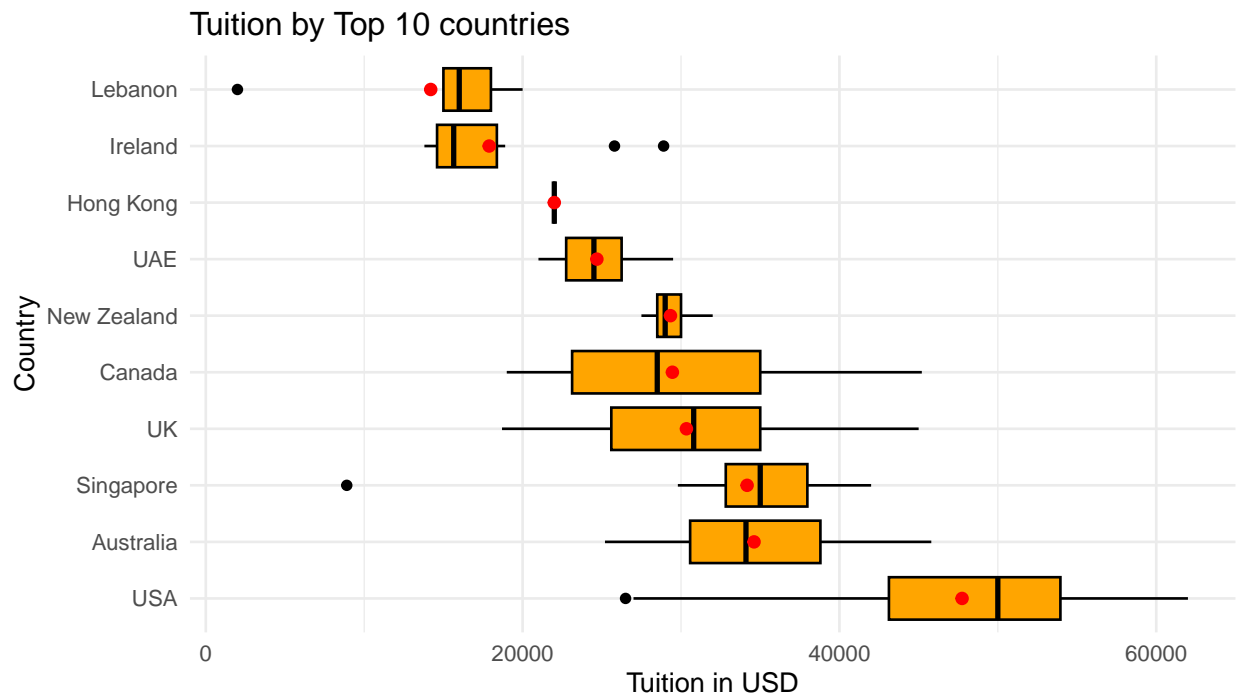
```
edu_data
```

### Group, find the average of tuition, and sort top 10 countries:

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

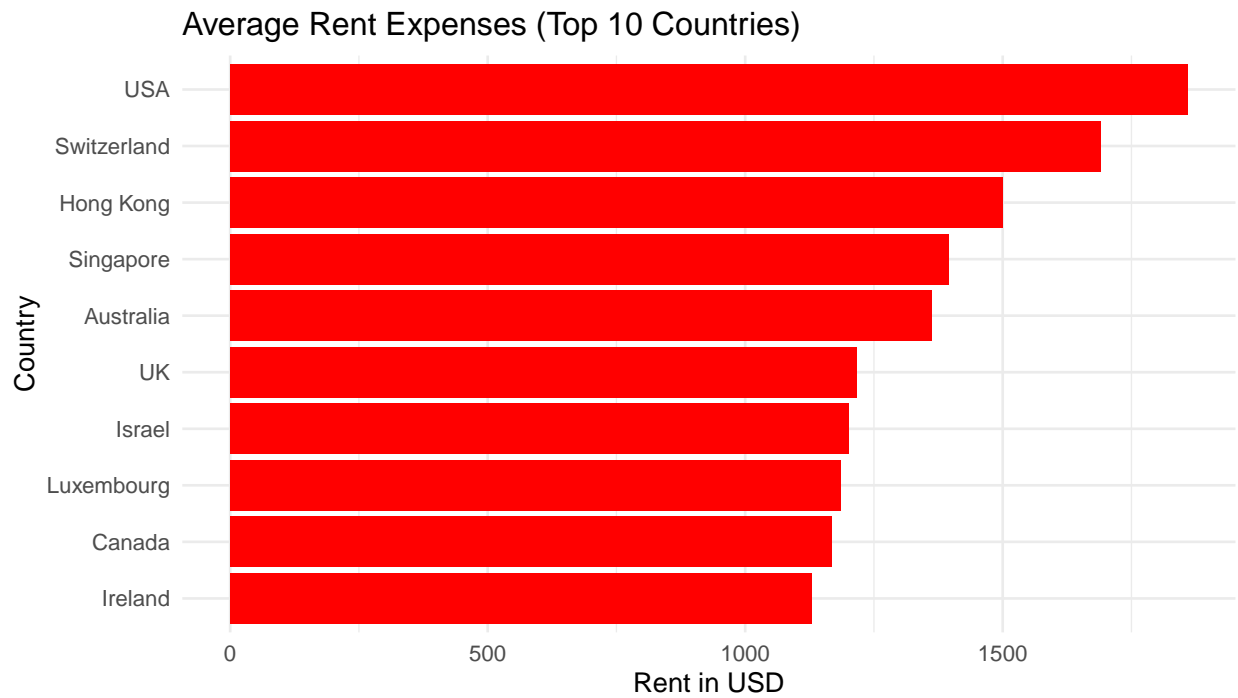
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```



### Observations:

The graph shows the top 10 listed countries by their international tuition costs. The data demonstrates that among the top 10 countries with highest tuition: - Lebanon has the lowest average tuition (red point points away from the orange box range). - The UK has the most consistent, highest average cost (red point is within the range, and is in the perfect medium). - Countries like Australia and Canada show high consistency in their tuition costs.

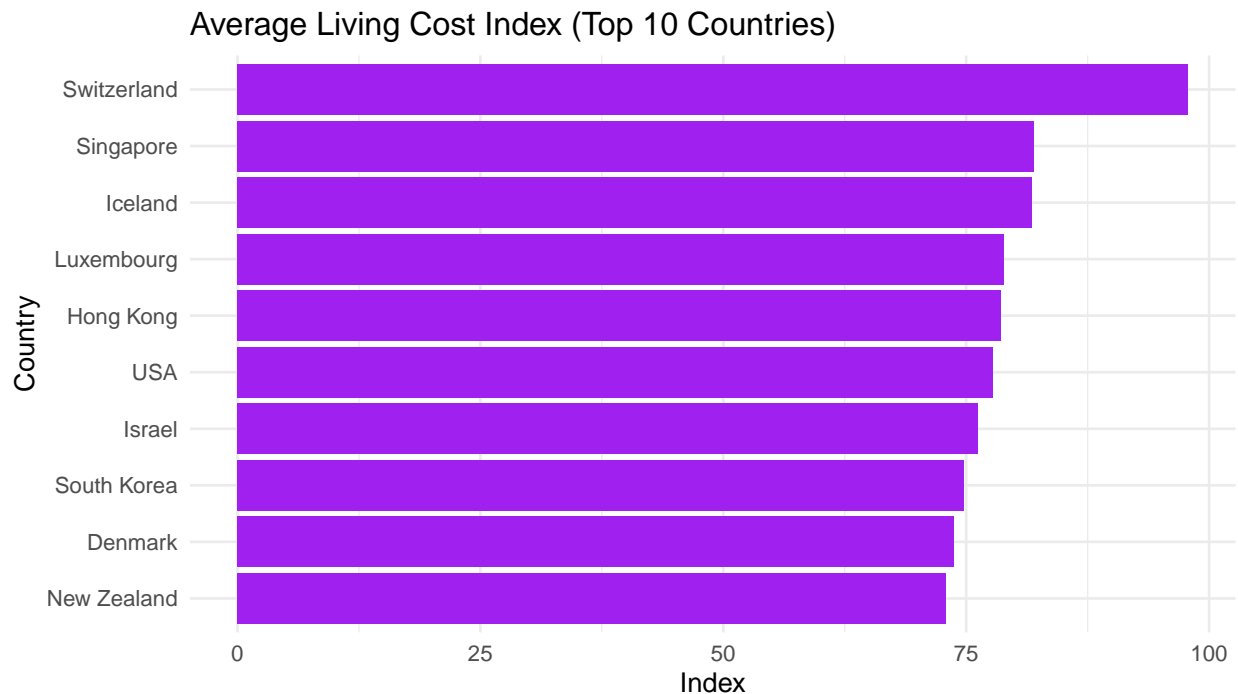
**Plot 2: Rent expenses per Top 10 Countries**



**Observations:**

The graph shows that in average, USA has the highest average rent expenses for students among the top 10 countries, whereas Ireland has the lowest ones.

**Plot 3: Average living cost in Top 10 Countries:**



### Observations:

The graph demonstrates top 10 countries with the highest rental expenses for international students. It is indicated that: - Switzerland has the highest living expenses for students. - New Zealand shows the lowest amount of expenses. - For all of the top 10 countries, the index of average living cost of students are more than a half of the total ( $>50$ ). New Zealand with the lowest index shows about 74/100.

### Summary

This analysis highlights the financial landscape faced by international students across various countries. By examining tuition fees, rent expenses, and the general cost of living, we gain a clearer perspective on the most and least financially demanding study destinations.

- Tuition Fees: Countries like the United Kingdom, Australia, and Canada consistently show high and
- Rent Expenses: The United States stands out as the country with the highest average rent, followed
- Living Cost Index: Switzerland ranks highest in terms of living costs, indicating a generally exp