Data Viz Assignment 3 – MVA Team

Title: Parent's education on their kids' financial situation

Date: 24/02/2022

Tasks: Explication of intergenerational financial mobility based on parents' income and education analyses.

Operations: By clicking on any of the bars in the bar chart, the user will access further information: A click on a bar representing the parent's income will display the income and the percentile. A click on a kid 's income bar will display the income and the density, interpreted as the probability that a kid whose parents went to this school earn this income.

For the remaining graphs, our main goal is to highlight income differences with shades and colors by using an interactive display of the legend when clicking on a specific color.

Details:

1. For graph A, the density needs to be calculated. For that we need to calculate the probability by dividing the count of the kids, whose parents went to a specific school to the total number of kids whose parents are in the same percentile.

2. To create the legend in graph D, we need to benchmark the parents' income and decide different threshold

3. For graph D, we also need to compute the percentage of parent's income for the threshold categories in the legend.

4. For graph B, we need to calculate the kids' salary percentile per parent schools

Focus:

Our initial goal was to show the impact of the parent's educational and financial background on their kids' future income in order to gain a deeper understanding of financial mobility. In this assignment, we also focus on the relationship between the parents' education and their income. This zoom on one generation allows us to draw more accurate conclusion on the next one, especially since we miss data on the kids' education. Having the goal in mind to answer the question: "What is the likelihood that a kid earning XXX amount of money comes from a family where the parents went to Y schools and earn ZZZ amount of money?" Focusing on the parents' situation help us to answer the reverse question "What is the likelihood that a kid earning XXX amount of money, went Y school?"