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Trabajo Encargado - N° 002 $\label{eq:normalization} $\operatorname{https://github.com/V4LM0R/PWT-DT.git}$$

INTERPRETATIONS

- 1. Average number of tattoos per group: The average tells us how many tattoos, on average, a person has in each group. If the average is higher among young people, it suggests they tend to have more tattoos than adults.
- 2. **Standard deviation:** It measures how much the data deviates from the average. A higher value means more variability in the number of tattoos within the group.
- 3. Coefficient of variation (youth): This expresses the relative variability (in
- 4. **Student's t-test (equal variances):** This test checks if the difference in average tattoos between the groups is statistically significant, assuming both groups have similar variability. A p-value below 0.05 suggests a significant difference.
- 5. Welch's t-test (unequal variances): This test is more robust when the variances are not equal. It also evaluates if the difference in averages is statistically significant.
- 6. Coefficient of variation (adults): Like in point 3, but applied to adults. It helps compare variability between groups even if they have different averages.
- 7. **Proportion of people with tattoos:** This calculates the percentage of people with at least one tattoo in each group. It helps determine which group is more likely to have tattoos.
- 8. **Preparation of mean values for plotting:** Here, the averages are stored for later use in the plots, improving efficiency and clarity.
- 9. Barplot (mean comparison): A visual comparison of the average number of tattoos between young people and adults.
- 10. Barplot of people with and without tattoos: This shows how many people in each group have or don't have tattoos.
- 11. **Boxplot (distribution):** This visualizes the distribution of tattoos, including medians, quartiles, and outliers, for both groups.
- 12. **Barplot with adjusted y-axis:** Same as point 9 but with a tighter y-axis scale for better visual comparison.
- 13. Barplot of proportions (0 to 1 scale): This graph shows the proportion of people with tattoos as a decimal (between 0 and 1).
- 14. Final comparison with "with/without tattoos": This grouped barplot compares both groups by their count of tattooed and non-tattooed individuals.
- 15. Frequency tables (0 to 6 tattoos): This counts how many people in each group have exactly 0, 1, ..., 6 tattoos.
- 16. Grouped barplot (exact distribution): A side-by-side bar chart comparing the number of people in each group for every exact tattoo count (from 0 to 6).