



Overview

A list of hundreds of colleges in the United States are categorized by their school types and region, but most importantly, if they are of Ivy League. Then, the following columns recorded the students' salaries throughout their career respectively.

Keywords

Career after University, Salary, Ivy League Schools

General Information

- Creation Date: 11/25/2023
- Format: csv
- Instances: 269 observations
- Upstream Datasets: 2

Intended Use

For the final project study of INFO 201.

Caution on Use

Further edit and reference without consent. The first-editing authors have not make sure of the credibility and cannot be responsible for any possible consequences.

Especially commercial use. Neither the source datasets nor the edited dataset allow commercial use.

Externalities

- The data was collected at least 7 years ago, so both the universities and the job market in the United States become very different nowadays.
- Studying the salaries of students from high-level education itself holds a low externality because most of the United States population hasn't graduated from the schools we studied in.

So we are looking at only one binary feature: Ivy League or not, limited the externality within students of high-level education and excluded over intricate factors.

- Employment and salary level of the students could vary depending on factors beside their college degree. The average salary of a university's graduates could differ a lot from any individual.

So we suggest students planning to apply for colleges and on campus consider this study with extreme caution. We didn't offer any credible predictions of salary of future students graduating from these colleges.

Risks and Concerns

Representation

Restricted to--

- Students graduated from universities, especially a high level of education institutions which were listed in the dataset.
- These former students carried on a career life for over 10 years after graduation
- Were willing to share information about their salaries.

Possible Bias from Upstream

During Data Collection:

- Possible favor and bias on the universities the data collectors graduated from.
- Students who refuse to share their salaries or live on earnings beside salaries that can be recorded may be severely underrepresented.

Upstream Sources:

- Payscale collects and shares data for commercial purpose as a compensation management platform. Thus, the data may be directive to attract people to use their service.
- 1. According to the instructions written by the editors of The Wall Street Journal on "Salary by College Type", there's a chance of trolling and exaggerating in their data.
- 2. The original title is "Salary Increase By Type of College" and The Wall Street Journal suggests people to look at the INCREASE throughout the career.

Data Wrangling

- No missing data was impute or fill in.
- About 60 observations were deleted from the "Salaries by Region" dataset since we merged it with the "Salaries by College Type" dataset and those universities were not included.
- For example, it's N/A for the Mid-Career 10th Percentile Salary of California Institute of Technology because it was missing in the source datasets.

Assumed Known Concepts

- Names of universities in the United States.
- Meaning of School Type, e.g., Party.
- Statistical meaning of "median" "10th percentile" "25th percentile" "75th percentile" "90th percentile".

Sensitivity

This might lead to a comparison about the educational degree received and salary earned, and further upset the viewers.



Link to Repository: <https://github.com/INFO-201-Fall-2023-Final/final-projects-Roxanne76.git>