**Equity in Athletics**

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Capstone III

Data Analytics

Thinkful

**OVERVIEW**

[Data collected from US Department of Education](https://drive.google.com/file/d/1GcZ2lOxjlB3c35PCYFrN_fjcgwxPEi1-/view?usp=sharing)

This data comes from the OPE Equity in Athletics Disclosure Website database. This database consists of athletics data that are submitted annually as required by the Equity in Athletics Disclosure Act (EADA), via a Web-based data collection, by all co-educational postsecondary institutions that receive Title IV funding (i.e., those that participate in federal student aid programs) and that have an intercollegiate athletics program.

This data consists of information from 1,271 collegiate institutions in the United States from 2003 - 2021. There are 22,361 records across 25 fields. The fields are identified as follows:

1. Survey Year
2. UNITID
3. Institution Name
4. State CD
5. Classification Name
6. Sanction Name
7. Male Undergraduates
8. Female Undergraduates
9. Total Undergraduates
10. Total Men's Team Participation
11. Total Women's Team Participation
12. Men's Team Average Annual Institutional Salary per Head Coach
13. Men's Team Number of Head Coaches Included in Average
14. Women's Team Average Annual Institutional Salary per Head Coach
15. Women's Team Number of Head Coaches Included in Average
16. Men's Team Athletic Student Aid
17. Women's Team Athletic Student Aid
18. Men's Team Recruiting Expenses
19. Women's Team Recruiting Expenses
20. Total Men's Team Operating Expenses
21. Total Women's Team Operating Expenses
22. Grand Total Operating Expenses
23. Total Men's Team Expenses
24. Total Women's Team Expenses
25. Grand Total Expenses

**GOALS**

1. Look at the relationship between financial aid packages received by student athletes. Is there any difference in the financial aid offered to male and female athletes?
2. Look at the relationship between recruitment funds spent on collegiate athletes. Is there any difference in funds spent recruiting male athletes versus female athletes?
3. Look at the relationship between head coach salaries for men’s teams and women’s teams. Is there any difference in compensation for male teams versus female teams?

**HYPOTHESES**

1. There is no significant difference in the average overall amount of financial aid received by male athletes versus female athletes.
2. There is no significant difference in the average overall amount of recruitment expenses spent on male teams versus female teams.
3. There is no significant difference in the average head coach salary in men’s teams versus women’s teams.

**SPECIFICATIONS**

I will be importing the csv file into drive and then into Colab to be used in my Jupyter Notebook. I will then explore the data to look for missing values. I will use t-tests to test the significance of financial aid packages, recruitment funds, and head coach salaries between male athletes/teams and female athletes/teams.

**Who will find this valuable? How will they use them?**

As noted by an article entitled “Gender Pay Gap in Sports,” “...wage gap is one of the most overt areas of prejudice, as women remain far behind men when it comes to being paid in sports” (“Gender Pay Gap in Sports”). Recently, the wage gap between male and female professional athletes has been in the headlines with the recent lawsuit won by the U.S. Women’s Soccer Team guaranteeing equal pay with their male counterparts (“U.S. Soccer and Top Players Agree to Guarantee Equal Pay”). Clearly, there is evidence that highlights a discrepancy among male and female athletes, especially as it pertains to compensation at the professional level.

The goal of this research is to analyze collegiate institutions in the United States to determine if male athletes have a monetary advantage over female athletes in the form of financial aid, recruitment money spent, and head coach salaries.

Resources:

<https://www.cbsnews.com/news/gender-pay-gap-sports-soccer-tennis-basketball/>

<https://www.sportanddev.org/en/article/news/gender-pay-gap-sports>

<https://www.jjay.cuny.edu/sites/default/files/contentgroups/sasp/poster_gallery/poster14.pdf>

<https://ope.ed.gov/athletics/#/>