

PHSX815: Computational Methods in Physical Sciences

Algorithm for answering the question "Is there a correlation between the percentage of women enrolled in an institute and percent of freshmen receiving federal, state, local or institutional grant aid?" based on the data provided

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A simple way of checking if there is a correlation between the percentage of women enrolled in an institute and the percentage of women enrolled in an institute and percent of freshmen receiving federal, state, local or institutional grant aid would be by plotting a scatter plot between the two data frames.

1. Are there any correlations among the variables? Do you think these are reasonable?

Ans: Based on the scatter plot, it does not look like the two variables are correlated. Yes, this is a reasonable, as one cannot attribute any correlation between the two. It was just a simple test that I chose to familiarize myself with dealing with data frames on pandas.

The more interesting question that I intended to answer was "Is there a correlation between the percentage of women enrolled in an institute and the degree of urbanization of the locality where the institute is located?". Attempting to answer this question would have provided insights into how gender equality varies with the degree of urbanization. However, I had trouble dealing with non-numerical values in analyzing the data and hence resorted to a simpler task.