Dave Damon

UPenn Data Bootcamp

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PyCitySchools Analysis

Scope:

Analyze a large data set for the PyCity School District using Pandas and Jupyter Notebook to review multiple metrics including school size, type, budgets, test scores, and grade levels to determine trends in the student population.

Conclusion:

Due to multiple programming bugs that I could nor resolve, I had a limited output set on which to base my conclusions, However, I was able to review the data in the sample output provided to draw some conclusions.

Math and Reading Scores are very consistent across all grades in an individual school. The scores from 9th to 12th grades do not vary by more than two percentage points in any individual school, suggesting very consistent teaching methods in that school. However, there is much more variation in average scores when comparing different schools to each other, which could mean the quality of education varies from school to school.

Schools that spent less per student, were small or medium in size, or were a Charter school type had higher Math and Reading average scores. District school types, large schools, and schools that had the largest per student budgets did more poorly in Math and Reading scores results.