

Report about dataset

Link

<https://www.kaggle.com/spscientist/students-performance-in-exams>

Description

Marks secured by the students in high school
Students from the United States.

Meta Data

- Gender : Male or Female Students
- Race/ethnicity : Determine the ethnicity of student
{group A , B , C , D, E }
- Lunch : free/reduced or standard lunch plan
- Parental Level Degree : The degree took by parents
{some high school , high school , some college ,
associate ,bachelor's ,master's }
- Math , Reading , Writing scores : the score the
student got on the test
- Percentage (Engineered Feature) : the average score
in the three subjects scores

Main Findings with Explanatory Data Analysis

1. Students who completed the test preparation course managed to score more on average than students who didn't take the course
2. Students with Standard lunch plan managed to get a higher score on average than students with free/reduced lunch plans
3. The correlation between writing score and reading score is 0.97 which indicated really strong correlation between reading and writing skills
4. There was no discrimination against certain race or gender as they scored very close percentages on average
5. Parental degree is not a factor in students score as they scored very close on average

Main findings with Explanatory Data Analysis

1. Students who completed the test preparation course managed to score more on average than students who didn't take the course with a range between 5 and 12 points with confidence interval = 100%
2. Students who had the standard lunch plan managed to score more on average than students who didn't take the course with a range between 5 and 12 points with confidence interval = 100%