Revo REPORT

- Project Idea:

In our project, we leverage Linear Regression to examine the connection between SAT scores and Grade Point Average (GPA). Our objective is to create a predictive model that utilizes SAT scores to forecast GPA outcomes. With standardized testing's significant role in education, our aim is to contribute insights that can enhance admissions processes, academic support, and interventions. Join us on this journey as we explore the predictive potential of SAT scores, aiming to reshape how we approach student success in education.

- Why did we choose it:

1. **Educational Policy Impact:** If your study is geared towards education, the relationship between SAT scores and GPA is relevant for policymakers. Understanding how well SAT scores predict GPA can inform decisions about the usefulness of standardized testing in college admissions.

2. **Admissions Criteria Analysis:** Many educational institutions use SAT scores as one of the criteria for admitting students. Analyzing the relationship between SAT scores and GPA can provide insights into how well these scores reflect academic performance, helping admission committees refine their selection criteria.

3. **Student Performance Prediction:** Linear regression models can be useful for predicting outcomes. In this case, using SAT scores to predict GPA can be valuable for identifying students who might need additional support or enrichment programs based on their expected academic performance.

4. **Research on Academic Success:** If your study aims to contribute to the broader understanding of academic success, examining the correlation between SAT scores and GPA can be a key aspect. It helps to explore how standardized test scores align with actual academic achievements.

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- **Problems:**
  When increasing the learning rate, it fails due to exceeding the maximum number that Python supports.
- **Solution:**
  that we decrease learning rate so the jupyter notebook can handle the numbers

Special thanks to our awesome collaborators who have contributed to this project:

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