



**Aaran**

## **Project 1 Instructor Feedback**

### **Project Organization: 2**

- Glows:** Repo organization maintained with files in appropriate folders and clear naming conventions. README updated with appropriate formatting. Good use of markdown cells and formatting within notebook.
- Grows:** Looks like something went wrong with the markdown formatting of your sources. You may need to add in line breaks between your links, or consider creating hyperlinks.

### **Clarity of Message: 2**

- Glows:** Clearly outlined problem statement and intent of analysis. Great addition of post-covid data with obvious value-add to analysis.
- Grows:** Within your notebook, there was a lot of substantive information on why you chose the data, how you validated and combined it, and acknowledgement / resolution of shortcomings or other considerations. On future projects, make sure to include this kind of information at a high level in your README & presentation intro/conclusion.

### **Python Syntax and Control Flow: 2**

- Glows:** Good use of loops for batch changes. Libraries and files imported together at the top of notebook. Effective code, cells run in order without error messages.
- Grows:** You have a few warning messages - address these because they are warning you against unintentionally overwriting your original dataframe object. It can be resolved with `.copy()` or exact index references and `.loc[]`, as the warning hint states.

### **Data Cleaning and EDA: 2**

- Glows:** Great work outlining each dataset for context and consideration in your notebook. Detailed exploration and understanding of the data to drive analysis and frame conclusions, thorough comparison and review of data sources.

**Grows:** Make sure to add comments or markdown cells with your observations and questions throughout your notebook so we can follow along with your thinking process and decision-making.

## Visualizations: 2

**Glows:** Good variety of visualizations with labels and axes properly labeled and formatted. Strong approach to create layered and side-by-side viz that include all exams for ease of comparison. Strong interpretations - nice callout of decreased spread or variance within low-participation.

**Grows:** A note that if you are going to create multiple graphs, use the exact same color legend for each graph and change the color for a differing graph as people tend to form quick associations with color and meaning (ex: in your Scores Over Time SAT is Green and ACT is Orange, in Participation Rates they are flipped. For your participation rate scatterplots I would be interested in seeing a version of this distinguishing pre & post COVID as a way to identify potential grade inflation (ex: you could separate the periods into side-by-side or you can manually set pre-covid to one color range and post-covid to another, divergent color range).

## Research and Conceptual Understanding: 2

**Glows:** Excellent application of normalization for comparison. Methodological approach to gathering and comparing data sources to frame analysis. Strong application of additional resources and studies to guide EDA.

**Grows:** As noted in another section, incorporate more of the understanding and questions that come from your research throughout your notebook. Can also be beneficial to call out what your expectations may be, and how those changed through your research and project development.

## Presentation: 1.5

**Notes:** Clear, strong intro with good outline of methodology. Avoid using screenshots of tables or make sure that column names & values are properly formatted (e.g. capitalized, numbers rounded, etc...) if you do. Where did you get A-level data from? Make sure to list sources in your presentation, as well!

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**Total: 13.5**

Avg: 1.93