Review of Classmates Video

Select a classmate’s video from the R project, watch the video and answer the following statements.

1. Whose video did you watch?

* William Ransone

1. Describe at least 2 things your classmate has done well in their video presentation.

* Good use of distinctive colors in multivariate graphs, makes it easier to read information accurately.
* Creative thoughts when determining limitations of dataset.
* Brief and easy to read, limited use of technical terms.
* Clear voice, easy to follow.

1. Describe at least 2 things classmate needs to improve upon for future presentations.

* Tables are outputted in traditional R print format. Would have been neater to convert tables into data frame format and using Kable for table printing and formatting.
* Very little to no discussion of outliers or unexpected values.
* Bad graph formatting, for instance graphs in 2.2.2 have plotted ‘Waitlist’ at top, ‘Deny’ in middle and ‘Accept’ on bottom, however these are flipped on the legend, can lead to confusion. While graphs in 2.2.1 do not have this issue, their axis labels extend into plotting space, creating difficulty in reading.
* Summary sections is severely lacking overall.

## Reflection of Your Video

Watch or rewatch the video you created for the R project and answer the following statements.

1. Describe at least 2 things that you have done well in the presentation of your material.

* Good use of graphs and tables to support points made by my analysis.
* Concise and to-the-point discussion of findings.
* Clear formatting of report with properly labeled and focused sections
* Good tiebacks (to previous analysis findings) in more complex or multivariate analysis further in report.

1. Describe at least 2 things that you think you need to improve upon for future presentations.

* Need more in-depth explanation as to why certain graphs or tables were chosen.
* Video presentation was too brief, could go into more explanation of my conclusion.

## Reflection of Your Report

Answer the following questions about your R project report.

1. Describe at least 2 things that you have done well in your report.

* My report includes thorough statistical analysis and visualizations, such as comparing delays by plane age and identifying factors influencing delays. This depth highlights my effort in exploring the dataset comprehensively​.
* My analysis concludes with clear and practical suggestions, such as dynamic scheduling and predictive maintenance, which demonstrate a strong focus on translating data findings into real-world applications.

1. Describe at least 2 things that you need to improve for future reports.

* Certain analyses, like the comparison of delays based on plane engines, have sample size limitations. Expanding data collection (by pulling and merging data from additional sources such as the FAA) to include more years or additional airports would make my conclusions more robust​ and analysis more accurate. Thus, in future reports I should expand my sources for data wrangling.
* While my visualizations are effective, adding a summary table of key findings at the beginning or end of the report could improve clarity for readers looking for quick insight.

1. Would you hand this report to a potential employer for evidence of your data science experience? Why or why not?

* While this report demonstrates strong analytical skills and an ability to derive actionable insights from data, I would not choose it as the primary piece to showcase my data science experience to potential employers. Instead, I would highlight a deep learning or machine learning project, particularly one involving unsupervised or semi-supervised ML models.
* Such projects not only provide a stronger demonstration of my technical expertise but also tend to be more appealing to recruiters. They highlight advanced skills like feature engineering, model tuning, and handling complex datasets, which align closely with the cutting-edge trends in data science. Showcasing these kinds of projects instead of a basic analysis can help me stand out in a competitive job market.

1. Did you enjoy doing this project? Why or why not?

* Yes, it was an extremely easy project which helped boost my confidence in R programming syntax and refreshed basic concepts in the data analysis life cycle.

1. Did you think this assignment was worthwhile? Why or why not?

* I believe a more challenging project, such as one involving more data wrangling/formatting or modeling/testing (regression, hypothesis testing, etc.) could have made this project more worthwhile, as a simple analysis feels too easy at the graduate level.

1. What did you learn from doing this project that you can take forward to other data science projects?

* My project illustrates how understanding the context of the data (such as manufacturing year impact or airport traffic differences) is critical for meaningful analysis.
* Identifying limitations, such as sample size or unaccounted variables, highlights the iterative nature of data science. My future projects could benefit from planning iterations to address these holes early.