Meeting summary

Quick recap

The group discussed their data visualization assignments, reviewing and selecting visualizations to write about for their final report. They agreed to each write about 1 accurate visualization and 1 misleading visualization, with Brittany and Alexander choosing feature importance and correlation heat maps, while Aidan and Chijioke selected misleading visualizations to analyze. The team decided to complete their written reports by Wednesday at noon and create PowerPoint presentations for Thursday's class, using a template from a previous assignment. They also discussed formatting requirements, including the need to incorporate readings and citations, and agreed to structure their reports with introductions, sections on ethical considerations, and conclusions.

Next steps

- Alexander: Write about the feature importance and correlation heat map visualizations for the report by Wednesday at noon
- Brittany: Write about the overlapping age distribution by survival outcome visualization (as an accurate example) and one misleading example (bin size comparison) for the report by Wednesday at noon
- Aidan: Write about one misleading visualization for the report by Wednesday at noon
- All team members: Create PowerPoint slides for their respective visualizations for Thursday's class presentation
- All team members: Include references to course readings with quotes in their report sections
- Aidan: Write the introduction and/or conclusion section for the report
- All team members: List document links at the end of the report for works cited
- Brittany: Reshare the Google Doc link in the group chat
- All team members: Submit final report by Wednesday at noon

Summary

Data Analysis Assignment Review

The students discussed their data analysis assignments, with Alexander and Aidan having completed their code and visualizations while Chijioke was about to upload theirs. They agreed to review and write about two good and two bad visualizations, with Aidan suggesting they could add more if needed, and Brittany noted they should include citations from the readings as requested by the instructor. The group also mentioned that there would be no quiz this week, and they expressed frustration about the lack of feedback on previous quizzes.

Titanic Data Visualization Review

The team reviewed various visualizations of Titanic passenger data, including confusion matrices, feature importance plots, and scatterplots. Alexander presented several visualizations focusing on survival rates by class and location, while Aidan shared examples demonstrating both accurate and misleading data representations. Brittany raised questions about multicollinearity in the feature importance analysis, which Alexander addressed by explaining the VIF values shown in the plots. The group agreed to include a mix of good, bad, and middle-ground visualizations in their report to demonstrate different approaches and their potential pitfalls.

Survival Rate Visualization Review

The team reviewed several visualizations, discussing both accurate and misleading ones. Aidan and Brittany shared their work on survival rate visualizations, with Aidan presenting a bar plot comparing survival rates by title and class, while Brittany showed a side-by-side bar plot examining interactions between class and gender. The team agreed that comparing visualizations using the same data is important, though small differences in training and testing datasets won't significantly impact results. Alexander shared a multi-class visualization and a misleading pie chart showing fare range survival distribution, which the group criticized for its deceptive use of a pie chart format and misleading y-axis scaling.

Data Visualization Misinterpretation Discussion

The team discussed various data visualizations they created, focusing on how different presentation methods can influence perception. Brittany explained how she manipulated passenger outcome percentages and color schemes to reduce emotional impact, while Aidan shared his experience with misleading pie charts. Chijioke demonstrated how changing bin sizes and color coding could create misleading interpretations of survival rates by class. The group agreed to select two good examples, two bad examples, and one middle-ground example for further discussion, though the specific choices were not finalized in the transcript.

Data Visualization and Correlation Insights

The group discussed visualizations and correlations in a dataset, focusing on a confusion matrix and color coding techniques. Aidan and Alexander examined a correlation matrix that showed interesting relationships between survival rates and factors like family size and age. Brittany expressed preference for a particular visual representation, and the group agreed it would be a good choice for accurate representation. Alexander explained the process of creating the correlation visualization, which involved training and processing data with dummy variables. The discussion concluded with Aidan asking if anyone had a strong preference for a particular category to write about.

Project Assignments and Deadlines

The team discussed their project assignments, agreeing that Brittany and Alexander would write about accurate visualizations, while Aidan and Chijoke would analyze misleading ones. They

decided to complete the written portions by Wednesday at noon, allowing time to create PowerPoint presentations for Thursday's class. The group also agreed to incorporate quotes from readings and include ethical considerations in their write-ups, with Aidan suggesting they add a conclusion section as well.