

Project Progress Report 2

(due May 24th 11:59p.m)

You can start working on the project once your report is accepted and graded by your TA. The entire final project is worth **35%** of your final grade and this report accounts for **10%**. This project is done individually.

Submission Guideline

Download this google doc, fill the table. **Type** your answers, no handwritten answers will be accepted (except for the very last question). Submit it in **PDF** format on Gradescope.

If you need some inspirations please feel free to take a look at:

[Showcase of Information is Beautiful Awards](#)

[Bloomberg Year In Graphics Review](#)

[The Pudding](#)

[The New York Times](#)

Project Guidelines

Note: The guideline has been further clarified from Progress Report 1, so double-check whether your dataset choice still satisfies the updated guideline below.

1. You may use more than one dataset, however, regardless if you use one or multiple datasets, your visualizations must make use of at least three following data types - **link, position, and attribute**.
2. You cannot use any dataset from the class (Labs, Assignments, Lecture Exercises)
3. You can make your own dataset (Web scrape etc.) provided point 1. is satisfied.

Part 1 - Story and Narrative

Link to the dataset	https://www.kaggle.com/datasets/vora1011/ipl-2008-to-2021-all-match-dataset?resource=download https://www.kaggle.com/datasets/sankha1998/ipl2023?select=each_match_records.csv																				
Example item from the dataset	<table><tr><td>ID</td><td>1312200</td></tr><tr><td>Venue</td><td>Narendra Modi Stadium, Ahmedabad</td></tr><tr><td>City</td><td>Ahmedabad</td></tr><tr><td>Team1</td><td>Rajasthan Royals</td></tr><tr><td>Team2</td><td>Gujarat Titans</td></tr><tr><td>TossWinner</td><td>Rajasthan Royals</td></tr><tr><td>TossDecision</td><td>bat</td></tr><tr><td>WinningTeam</td><td>Gujarat Titans</td></tr><tr><td>WonBy</td><td>Wickets</td></tr><tr><td>Margin</td><td>7.0</td></tr></table> <p>New dataset is also the same but has new data included</p>	ID	1312200	Venue	Narendra Modi Stadium, Ahmedabad	City	Ahmedabad	Team1	Rajasthan Royals	Team2	Gujarat Titans	TossWinner	Rajasthan Royals	TossDecision	bat	WinningTeam	Gujarat Titans	WonBy	Wickets	Margin	7.0
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Story you want to deliver	<p>(a story should be in a form of a list of facts, insights, and messages - refer to the lecture slide)</p> <p>The messages I want to deliver are two fold: an explorative study for IPL fans but also celebratory fun and celebratory visualization for the franchise. The facts and insights I want to put forth are ones that show the teams' matchup against other teams and also how stadiums favor batting or bowling more all over India. This will be fun to explore with a data science perspective as it can be useful for audiences to understand the data behind sports and how can stadiums favor certain teams over other while watching matches</p>																				
Describe your target audience.	<p>Familiarity with the topic?</p> <p>This visualization will only be intended for target audiences that are familiar with cricket and more importantly with the IPL since it will involve teams from the IPL.</p> <p>Do they care?</p> <p>The intended audience will care as they will be curious to know how their teams face up against other teams in the league. Also</p>																				

	<p>cricket enthusiasts might be more interested in whether batting or bowling is more favored in various cricket stadiums that the IPL is played in.</p> <p>What do you want them to take away?</p> <p>The audience should take away some successful teams that they learnt from the visualization and some more knowledge about the nature of cricket stadiums in influencing the result of the game. Further, this can also invoke a sense of curiosity for the sport and the tournament.</p> <p>What do they know about visualization?</p> <p>The visualizations will be quite intuitive.</p> <p>How do they encounter your visualization?</p> <p>This can be found on an article or a page on social media</p> <p>Mathematical background?</p> <p>The audience will not have to read much from the visualization mathematically as the actions will be more visual than numerical/quantitative.</p> <p>Device?</p> <p>This can be viewed on any electronic device.</p>
The goal of your project outcome. And why?	The goal is to make an exploratory study on the IPL teams and stadiums. This is because it is meant to be a fun visualization project for avid cricket fans rather than an explanatory or informational one.
Narrative structure you plan to use	Martini-glass structure
Elaborate your choice of narrative structure.	The visualization structure style is that there will be some context setup around what the visualization will be about and who the visualization is aimed towards. Then, the visualization will be up to the audience's discretion where they will be able to explore it however they want and make what they want of it.
Narrative genre you plan to use	Partitioned Poster

Elaborate your choice of narrative genre.	This is because a partition poster will enable me to build some guidance and context around the data visualizations. It'll allow me to make a concrete setup around how to read the visualizations and what are some things we can infer from them (for new cricket/IPL fans). But for other cricket enthusiasts, it will be quite easy to infer the visualization and they will be able to learn a lot more on their own about the history of the franchise.
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Part 2 - Outline

Story you want to deliver	(you can copy/paste from Part 1) The messages I want to deliver are two fold: an explorative study for IPL fans but also celebratory fun and celebratory visualization for the franchise. The facts and insights I want to put forth are ones that show the teams' matchup against other teams and also how stadiums favor batting or bowling more all over India. This will be fun to explore with a data science perspective as it can be useful for audiences to understand the data behind sports and how can stadiums favor certain teams over other while watching matches
Specifications on each plot in the order of how you lay out on your project	(for each plot, include 1) clear task abstraction, 2) attributes used, 3) marks, 4) channels, and 5) how this plot adds to the story) <u>Plot 1</u> <ol style="list-style-type: none"> 1. Task: this chart helps a user <i>identify</i> which teams have good win rates against other teams 2. Attributes: Win-Loss ratio between teams, Team Pairs 3. Marks: Line 4. Channels: color of the line 5. How this adds to the story: it aims to deliver insights on what are the team matchups against each other - this will be fun to learn about for new audiences. <u>Plot 2</u> <ol style="list-style-type: none"> 1. Task: this chart helps users compare between teams the average margin of runs and wickets each team wins by 2. Attributes: Average runs and wickets a team has won for each team 3. Channels: bar 4. How this adds to the story: it is fun for users to compare

	<p>how their team compares to other teams in terms of consistency of winning margin.</p> <p><u>Plot 3</u></p> <ol style="list-style-type: none"> 1. Task: this chart helps users to <i>compare</i> bowling and batting win-rates at different venues 2. Attributes: Bowling and batting win rates, Venu name 3. Marks: polygon 4. Channels: color
Elaborate the choice of their marks and channels for each vis	<p>For plot 1: Let's assume A and B have a win ratio of 70-30%. There will be an edge from A to B where the 70% of the edge will be colored black and the remaining 30% of the line will be red. The edges will also have a "dragged" property where the users can drag nodes around to make it fun to interact with. Users will be able to hover each edge to get the exact head-head ratio</p> <p>For plot 2: Since it's just a comparative bar chart, it is going to be very simple to make a bar chart where there will be two y-axes and two bars for each team - each bar corresponding to each y-axis. Users will also be able to hover over each bar to get the exact average runs and wickets.</p> <p>For plot 3: The color of the state in India will be more green if that state has a high batting-first win rate and closer to red if it is lower. Users will be able to select the season of the IPL using a dropdown menu that will change the map's visualization to represent the batting-first win rate of that state. Users will be able to hover over each state to see its batting-first win rate</p>

Following sample answer about a single plot shows how detailed your answers to part 2 should be.

<p>1. Plot 1</p> <ol style="list-style-type: none"> 1) Task: This chart a) analyzes trend between Height and Weight of patients with heart diseases and b) locates outliers within the patients 2) Attributes: Height, Weight 3) Marks: point mark 4) Channels:

- aligned vertical position channel for Height
- aligned horizontal channel for Weight

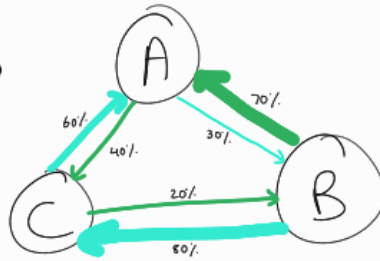
5) How this plot adds to the story:

My visualizations aim to deliver health characteristics of patients with heart disease. This plot will provide more specific insights on Height and Weight.

Part 3 - Prototype

IPL exploratory study

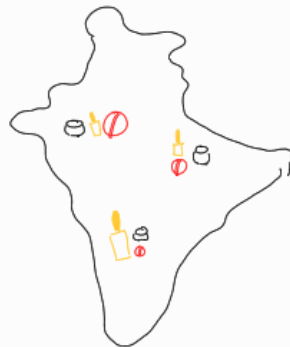
some
text



explain
teams

* this note will not be in the prototype.
this shows that the width of the edge
is proportionally large compared to winrate.

some
text



explain
map