How To Win the Superbowl: Historical Overview

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Project Description:

Our project is based on Superbowl statistics gathered over the past 53 years. We want to tell the story of the Superbowl: where it’s been held, how many people were present (physically/remotely), how each teams’ performance may have determined whether they won their game, and how each team’s score per quarter may give them a higher probability of winning the game.

**Research Questions to Answer:**

* What are noticeable trends with respect to the increase/decrease of attendees/viewers of the Superbowl?
* What do the various locations of the Superbowl tell us about how football has evolved over time?
* What combination of scores per quarter gives a team a higher probability of winning?
* Is it true all Superbowl wins are “blowouts”?
* Injuries: did the MVP get injured? QB injured? Did this determine whether the projected winner won/underdog won?
* Does the team with a higher success rate (measured by % pass completion) win?

**Datasets to be Used:**

We will be using a csv file which contains the historical information needed to make our calculations. Another csv file of the 49ers and Chiefs’ overall season may also be used for forecasting purposes.

**Rough Breakdown of Tasks:**

What are contributing factors to teams to winning the Super Bowl?

1. Do the size of markets/population impact the result?
2. Do average team salaries vs the league impact?
3. NFC vs AFC team spending
4. Offense type
   1. Completion percentages
   2. Average rushing yards
5. Defense type
   1. # sacks
   2. # touchdowns
6. Geographic impact
   1. Mapping where each Superbowl for the past 53 years took place
   2. Travel distances
   3. Variety of venue
   4. Total scores after Domes were mandated
   5. # of Injuries
7. Blowouts vs close games vs overtime
   1. How often does underdog win
8. Anecdotal info
   1. Cost per commercial
   2. Squares most commonly hit for the wagerer