Executive presentation Celtics Stats

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Boston Celtics

01 The Boston Celtics are a professional basketball team that plays in the National Basketball Association (NBA)
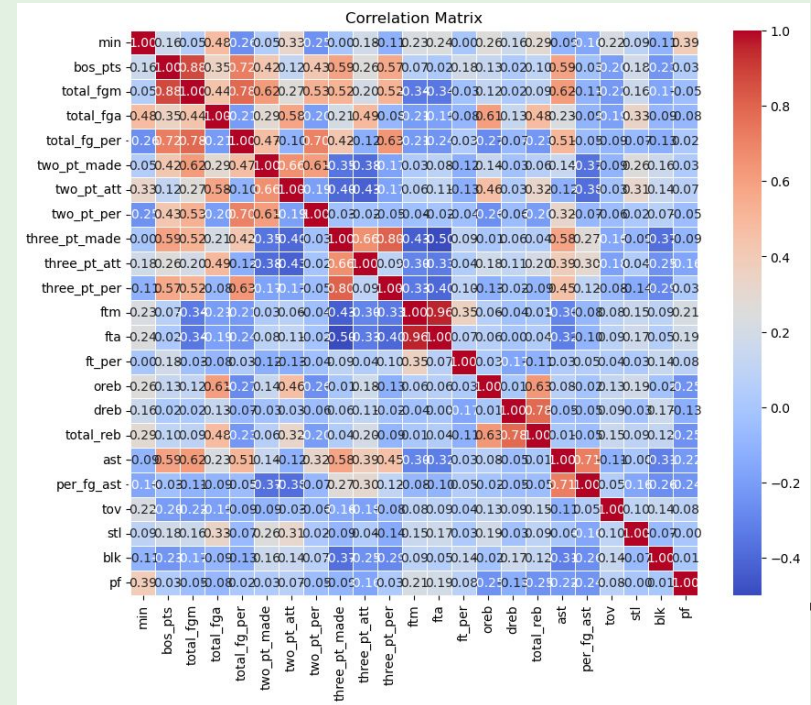
**02** Data: from 82 games from 2023 season

03 Objective: how to increase the winning chance of the Boston Celtics

A Celtics basketball dataset correlation matrix heatmap is shown in this graph.

- The colorful grid highlights these relationships. We can easily identify stats that interact and those that don't.
- Check out "blocks" and "free throws"—the light hue indicates little correlation.
- From Celtics data, this graph shows how similar or unrelated player metrics are. It reveals basketball performance numbers trends.
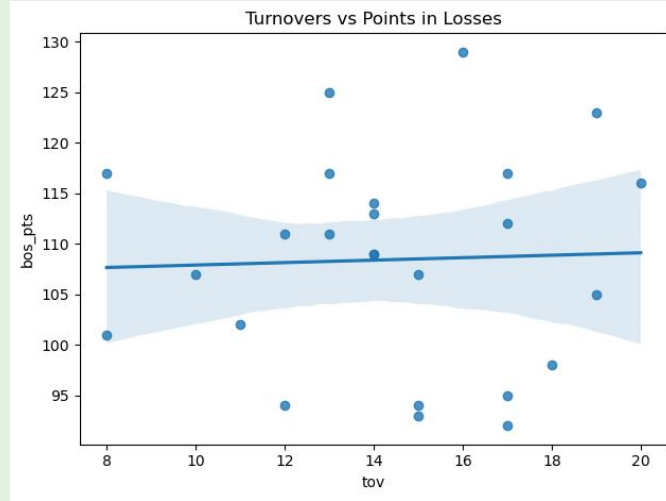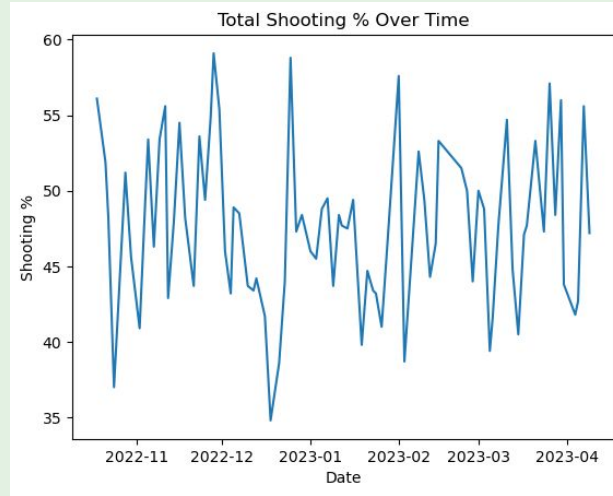
Data set

Turnovers vs Points in Losses
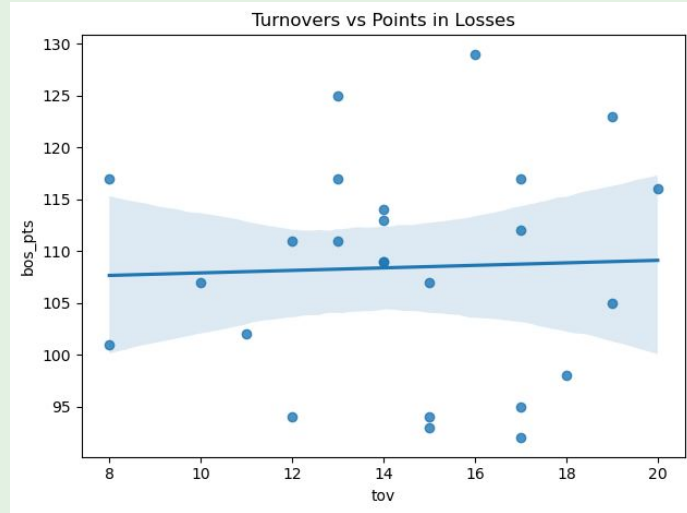
Use correlation tables to see if personal fouls/Points hurt scoring in losses.

Data Set

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Total Shooting Percent


Total Shooting % Over Time

- We may identify trends by plotting gunshot % over time on a line graph.
- We might see if their shooting has improved or deteriorated this season. If their offensive efficiency has large peaks and falls.

Celtics basketball dataset, this code compares wins and losses.

- Compare point, rebound, assist, and other averages in won_df and lost_df to see how sports game wins and losses affect these measures.

- Use wins and loses histogram graphs to show the Celtics' point distribution and detect performance trends.
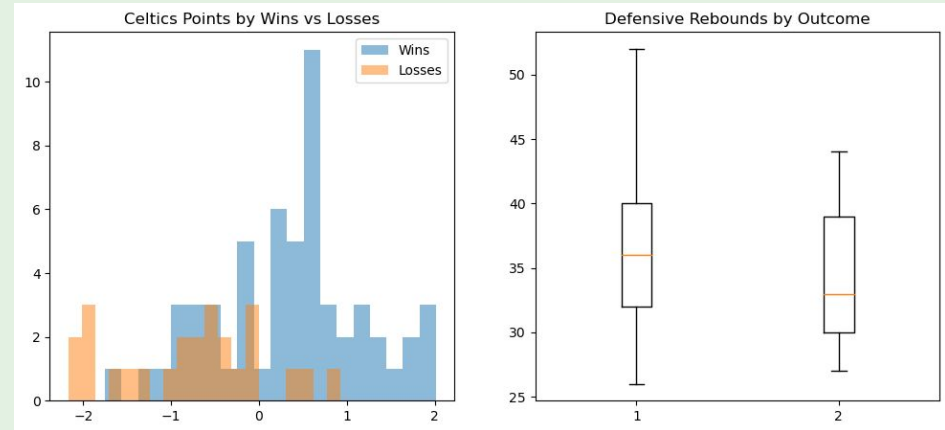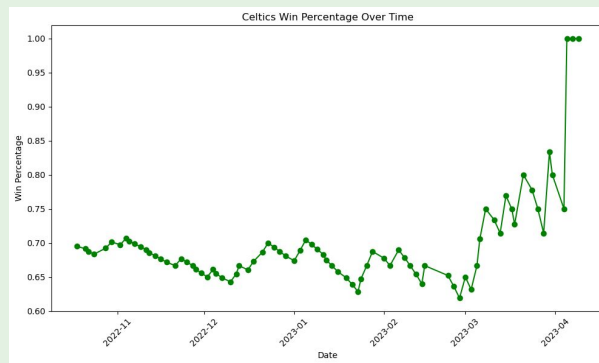
Celtics Points Scores: The specific variable being predicted
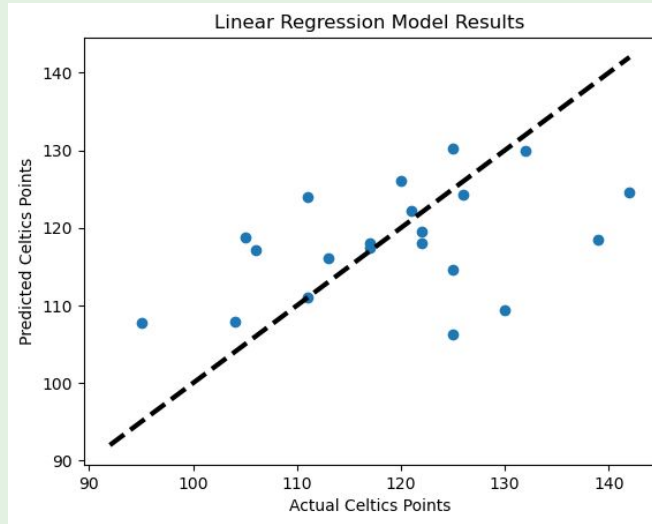
Plotting y_test (true Celtics points) against
bos_pts_pred shows the model's prediction abilities.
Diagonal line is perfect prediction. The depicted points'
proximity to this ideal line makes model performance
assessment easy.

Celtics win percentage

Boston's win % is calculated using Python, and charting it against dates in green Celtics style demonstrates how their season fortunes have changed from the basic count of wins and losses for each game. Just over 10 lines turn low-level facts into an insightful graphic charting this crucial performance parameter using Python's data analysis and visualization modules.

Conclusion

-The Celtics box score dataset offers multidimensional team and player performance analysis. Statistics confirm that points accurately measure effectiveness. Winning and losing averages show improvement areas. Visualizing field goal % over time shows offensive streaks and slumps worth investigating. Data processing, visualization, and statistics allow analysts to get insights on player productivity, team dynamics, and predictive modeling from this rich data.