**Cricket Data Analysis**

**Project Summary**

This project involves the analysis of cricket data from One Day Internationals (ODI) sourced from a publicly available dataset. The dataset contains detailed statistics for 2,693 players, with 25 columns, capturing a range of performance metrics such as runs scored, strike rates, bowling figures, and dismissals. The analysis focuses on uncovering insights and testing specific hypotheses related to player performance.

**Hypotheses and Results**

1. **Hypothesis 1:**
   * **Question:** Do players with higher strike rates have a lower conversion rate into milestones such as 50s and 100s?
   * **Answer:** The analysis confirms that players with higher strike rates tend to have fewer 50s, and their conversion rate to 100s is also poor. The hypothesis is **true** based on visualizations.

A screen shot of a graph

Description automatically generated

1. **Hypothesis 2:**
   * **Question:** Do wicketkeepers involve in the most number of dismissals compared to other players?
   * **Answer:** The analysis, supported by a pie chart, shows that wicketkeepers take more catches and are involved in the majority of dismissals, confirming the hypothesis to be **true**.

A graph of a number of players

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A pie chart with text overlay

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1. **Hypothesis 3:**
   * **Question:** Do players with a higher batting average convert their innings more frequently into 50s and 100s?
   * **Answer:** The scatter plot visualization confirms that players with a higher batting average tend to convert their innings into 50s and 100s more frequently. Thus, the hypothesis is true.

A screen shot of a graph

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1. **Hypothesis 4:**
   * **Question:** Do players who remain not out in most matches have a better batting average compared to those who are dismissed more frequently?
   * **Answer:** This analysis demonstrates the impact of "not outs" on improving a player's batting average.

A graph with blue dots

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