

# EXPLORING BASEBALL ANALYTICS THROUGH DATA VISUALIZATION

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## ABSTRACT

In this project, we use diverse data visualizations to illuminate the baseball statistics in many facets of the sport. We source data from trusted platforms, including Baseball Savant, Baseball Reference, and Spotrac, scrutinize trends spanning the past twenty-three years, identify statistical leaders from the most recent season in 2023, and extract valuable insights on player performance and rankings, encompassing both offense and defense metrics. Furthermore, we examine team payrolls and overall production and reveal the complex relationship between performance and financial investment. While this project does not aim to provide an infallible blueprint for athlete evaluation and team building, it gives insight into one of the myriad approaches teams can adopt to evaluate players and build successful strategies for the future of baseball.

**Keywords:** Baseball, data visualization, sports analytics, sports science.