1. Conclusions
   1. Results explained (**75 words)**

The analysis found no statistically significant relationship between goals scored and ball possession during the 2018 FIFA World Cup. (p-value of 0.5046 and Spearman's Rho (ρ = 0.0595) ), weak correlation at the 5% significance level. Scatterplot confirmed variability in scoring regardless of possession percentages while histogram indicated uneven goal distribution. This suggests ball possession alone isn’t a reliable predictor of scoring outcomes, challenging common assumptions and emphasizing the need to explore additional factors influencing match performance beyond possession statistics.

* 1. Interpretation of the results (**75 words)**
* *Interpretation of what the results mean in terms of your RQ and the effect this may have on your population and the wider context of your topic.*

The findings raise doubt on the widely held belief that ball possession has had an immediate impact on the number of goals scored. Even though possession could be dominance, other elements like pass accuracy, on-target, and attempts probably have a bigger impact on goals scored. The findings imply that teams should take a more comprehensive approach to performance evaluation and development rather than depending only on possession-based strategies.

* 1. Reasons and/or implications for future work, limitations of your study (**50 words)**

Future Work: Expanding the dataset to include multiple leagues or tournaments could provide broader insights into possession-goal dynamics. Incorporating additional metrics, such as pass accuracy, defensive tactics, player fitness, and on-target attempts, and using advanced methods such as machine learning could undercover deeper patterns.

Limitations: The analysis is limited to matches from a single tournament (FIFA World Cup 2018), which may not reflect broader trends. Additionally, the study focuses solely on the correlation between ball possession and goals scored, excluding other potentially influential factors that might contribute to match performance.