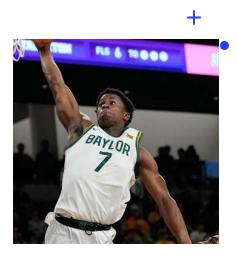
MARCH MADNESS PREDICTION MODEL. •

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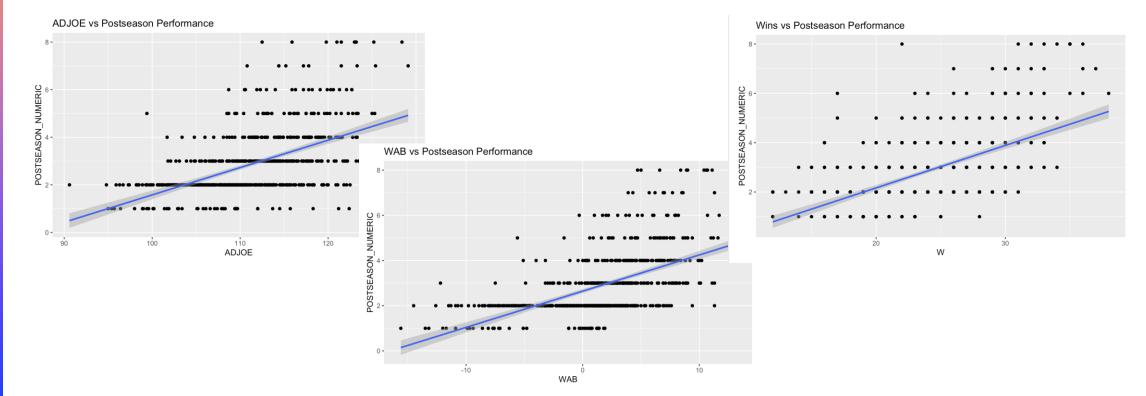
RESEARCH QUESTIONS

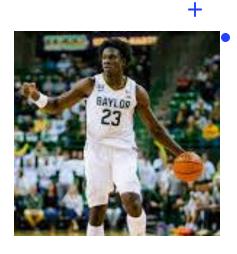
- What metrics correlate to a winning team?
- Does offensive or defensive efficiency impact their chances of winning the championship?



POSITIVE CORRELATIONS

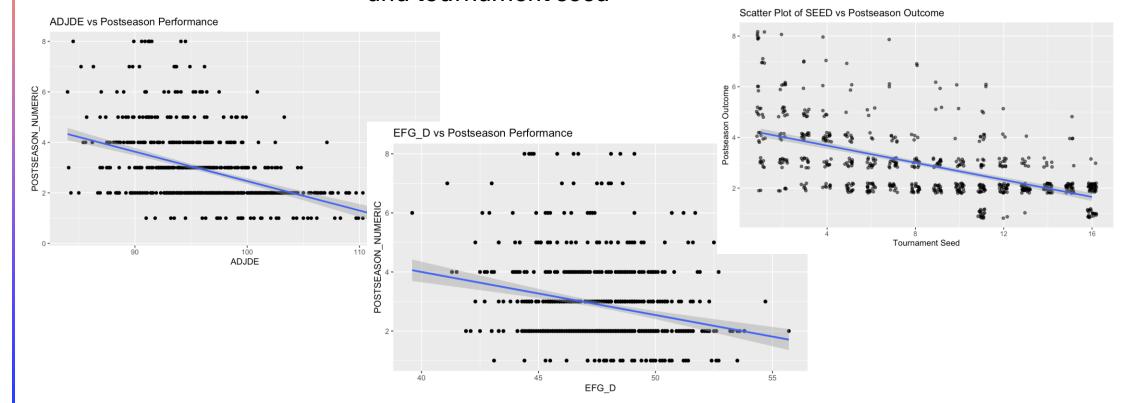
Variables, such as offensive efficiency, wins above bubble, preseason wins, and more have positive correlations that can help us predict post-season outcomes





NEGATIVE CORRELATIONS

We also noticed some variables with negative correlations to postseason outcomes, such as defensive efficiency, field goals allowed, and tournament seed



MULTIPLE REGRESSION (POISSON)

The Poisson distribution suits this analysis better than the Binomial because it captures the count-based, progressive nature of tournament advancement across multiple rounds, rather than a simple success/failure scenario. Unlike the Binomial, which assumes two outcomes, the Poisson model aligns with March Madness dynamics, where teams advance through discrete rounds with decreasing probabilities, providing a more accurate statistical framework for modeling performance.

