**Predicting Regular Season Results of the National Basketball Association Based on Extractable Statistics**

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**Background**

Predicting the outcomes of sporting events and how players perform is part of an ever growing trend in sports. This part of sports referred to as sports analytics is used in most major professional sports including but not limited to the National Football League (NFL), National Basketball Association (NBA), and Major League Baseball (MLB). All three of the above sport leagues have data accessible via the web and this data can be extracted using opensource tools.

The NBA is particularly positioned to be able to conduct advanced analysis on the wide range statistics available to teams and tv viewers. One of the greatest strengths of NBA Statistics is that every player is measured using the same set statistics i.e. field goal attempts and field goal makes. These same statistics can be applied to NBA teams and allows for comparison of teams.

This study will look at NBA teams and using statistics that are publicly available create a predictive model using random forest techniques to the outcomes of NBA games.

**Methodology**

As mentioned, the NBA has very detailed statistics that are mostly free and obtainable by the public.

**Results**

**Conclusion**