Project 1 Proposal

Objective: *We have been contracted by the Orlando Magic Front Office to do a team evaluation now that the 2022-23 NBA Regular Season has concluded. We have been instructed to evaluate their players’ performance based on Key Performance Indicators(KPIs) and compare the players to other league performers. With this information the Front Office will use it to locate holes in the team, continue to develop players where they need to develop or contract new players to fill the needed role*.

Plan of Action:

We will have 5 major talking points in this proposal. They are the following:

* Analyze the Orlando Magic’s win percentage over a span of 15 seasons and determine whether there is a correlation between regular season wins and playoff wins.
* Analyze overall team performance from all seasons, as well as individual player demographics from the top/bottom performing and most recent seasons.
  + Win/loss percentages
  + Offensive and defensive ratings
  + Players’ years of experience coming into the season
* Orland Magic Team Analysis
  + Compare Team performance to the Best (1st), Middle table (15th), and Worst (30th) teams in the league.
    - Points
    - 3 point percentage made
    - Field goal percentage made
    - Rebounds
    - Turnover Rate
  + Measure Performance as a team against the league as a whole
* Analyze what KPIs most directly contribute to winning games
  + Steals
  + Blocks
  + Turnovers
  + Field Goals Made
  + 3 Points Made
  + Free Throws Made
  + Rebounds – Offensive and Defensive
* Comparing players to other league players:
  + We will divide the previous DF into 3 categories.
    - Guards
    - Forwards
    - Centers
    - Use that to support how individual performance impacts team performance.
  + Once that is done, we will use the NBA\_API and group the top performers in the league in a same way. That will make it easier for us to compare the correct players to one another.
  + We will use the same metrics that we measure for the orlando players to the league leaders.