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| **Proposal**  **Description** | **Team Case Proposal**  **NBA Team Efficiency Improvements** |
| **Proposal**  **Contact**  **Information** | **Group 1**  Bhavika Patil [patilb@mcmaster.ca](mailto:patilb@mcmaster.ca)  Cindy Guo [guo1@mcmaster.ca](mailto:guo1@mcmaster.ca)  Dennis Hung [hungd@mcmaster.ca](mailto:hungd@mcmaster.ca) |
| **Proposal Date**  **Submission** | 2021-03-04 |
| **Business Goal** | The Toronto Raptors are an NBA championship team with a $2.5 billion market capitalization that is in decline after being crowned 2019 NBA champions. They were able to add key players in their run that year which allowed them to edge out critical wins in the playoffs.  Being heavy in the data analytics department, the team’s management are seeking fresh perspectives in order to increase their chances at another championship run but not at the cost of their future.  Currently, the team is looking for marginal/minor improvements to the player roster to either maintain or improve on the number of seasonal wins. The organization is looking to rebuild the core team players and more importantly maintain the public’s interest and/or improve the team’s performance. |
| **Analytics**  **/ Data Mining**  **Goal** | To fulfill the requirements outlined by management, we are looking to determine what features affect team wins/losses and how this can be improved/reduced through changes in the team’s roster. |
| **Data** | NBA API created by Swar Patel will be used to gather historical NBA statistics from nba.com or alternate sources for this analysis. As this will deal with team wins / losses, classification models will be selected and reduced to 3 possible models.  Example of possible features |