**Proposal**: NBA players and NBA teams evaluation system

**Dataset**: Kaggle: https://www.kaggle.com/drgilermo/nba-players-stats-20142015

The entire dataset contains every NBA player’s stats like points, rebound, assists, field goal percentage..etc, in 2014~2015 season. Based on these stats we can bulid a evaluation system to evaluate every play’s performance through the season.

**Proposal Solution and Real Word Application:**

Our proposed solution is to build an algorithms to evaluate their performance through the season. In common sense, we only care about the rank 30 or rank 50 of the players. So firstly we will do data filtering and preprocessing to leave out those players who played less than 40 games in the season or played less than 15mins per game.

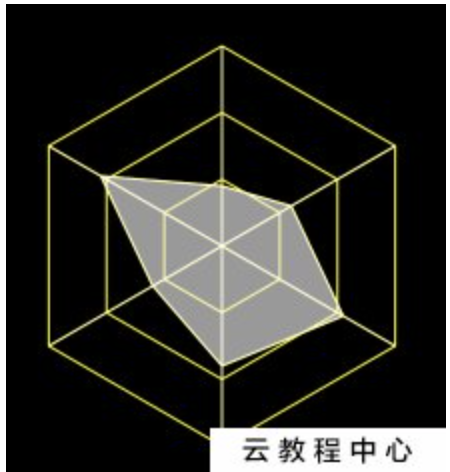
After data preprocessing, we can rank the players based on our algorithms. By ranking, we could find something common or something different between the top players. Like if they are from the university or most of them are in guard position. From these information the NBA league will know which university they should pay more attention to or which rules they need to adjust to maintain the balance.

Besides, we could evaluate every team’s performance based on all the players that belongs to the same team. By the stats every individual team will know which aspect they should do better in the next season. And by these stats we could rank all 30 teams too.

**Project step:**

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| **Stage** | **Estimated time** | **Person in charge** |
| Understanding and preprocessing data | 1 week | **Ruoqi Zhang** |
| Building algorithms for evaluation | 2 week | **Liang Hou** |
| Data visualization and ranking | 1 week | **Xiaotian Ma, Jiageng Ni** |

*Ability map is as below:*

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