

Esports

The Sacramento Kings participated in the inaugural NBA 2K League under the team name Kings Guard Gaming. The league lasted 17 weeks and recently concluded with the underdogs Knicks Gaming defeating Heat Check Gaming in the Championship.

Each game consist of 5 players on each team who use their own unique characters (not existing NBA players) to play one of the following positions (PG, SG, SF, PF, and C). Quarters last 6 minutes and each team is unable to switch positions during the game.

Each of the 5 players is required to select one of 5 archetypes for their given position before every game. The attributes/abilities that these archetypes provide widely differ. For example, some archetypes' skillset prioritize shooting at the expense of poorer defense while others thrive at defense but have poor passing. Players are not able to change archetypes during the middle of games.

The league was a new experience for many organizations and teams constantly switched positions and archetypes in hopes of finding their perfect fit. Many teams that struggled to win games had trouble finding the best archetype combination for their team.

Based off the above information and your research, provide any or all of the following:

- Create an algorithm that selects the most efficient combination of archetypes for a team.
 - Show the combinations of archetypes and their effectiveness when matched with and against each other.
- Any other unique findings from looking at data and information?

Questions to consider in your analysis, but are not limited to: which 5 archetypes (one in each position) provide the best overall team? What combination of archetypes match best/worst against one another. How do the height and weight of players affect matchups? How do badges affect matchups?

***Please Note*:** Midway through the season (on July 2nd), the league updated the attributes/abilities of several archetypes in order to add more balance and variety to the game

Updated Archetype stats can be found on <https://2kleague.nba.com/official-archetype-info/>
Archetypes for both teams can be found at the beginning of each game when teams lineup
Full games can be found on <https://twitch.tv/nba2kleague>
Player and team stats can be found on <https://2kleague.nba.com/>
Game schedule and stats can be found on <https://2kleague.nba.com/>

Fan Experience & Social Media

In recent years, more professional sports organizations have created mobile apps for their fans. These apps have a wide range of purposes including mobile ticketing, finding parking, ordering food to your seat, or reading news about your favorite team.

The Sacramento Kings created the Kings + G1C app, the world's first dual-mode venue and team app, to enhance the fan's experience. Consisting of over 30 integrations, the Kings + G1C app served as a fan's remote control to the arena where they are able to access many useful features.

Some of the most popular features of the app include: food delivery to seats, in-game rewards, QR codes to provide Season Ticket Members with discounts, and team news. The app is also used for fans to access their tickets to both Kings games and other concerts/events at the Golden 1 Center.

A major goal for all sports teams is to continue to grow their number of downloads, users, and ratings as well as making their app easy to use for all.

Based on the information above and your research, provide the following:

- Implement a new and feasible feature to the app to increase engagement and daily active users.
- Any other unique findings from looking at data and information?

Things to consider in your analysis, but are not limited to: heightened app usage on a game/event night, how other sports teams have found success in their app? How can the Kings improve their app rating?

Block Chain

If you're looking to take part in the Blockchain Track at SacHacks you'll be able to participate in two separate challenges:

1. Crypto Kings

XYO network and the Sacramento Kings are teaming up to try out a first of it's kind scavenger hunt game. Players will search for licensed digital goods hidden around Kings stadium. In order to participate in the challenge teams will create a custom UI for the Kings team!

2. Blockchain at Large

Ethereum? Lightning Network? EOS? In the world of blockchain development there are endless opportunities to create something groundbreaking. To win this challenges teams merely have to create a novel application that uses blockchain technology.

Game Dev

1. Go Build a game. Simple as that.