List of Tasks (from the proposal)

1. ~~Understanding and using the API to grab data from basketball-reference.com (3 hours)~~
2. Analyzing player stats and exploring data processing and statistical analysis through scikit-learn to represent player stats in a fixed number of dimensions (8 hours)
3. Implementing core algorithm and function to find trades by imagining a new player and matching that fake player to a player that already exists (6 hours)
4. Implementing a simple user interface in Python (1 hours)
5. Testing the model through video game simulation and polling on social media (3 hours)

1) Which tasks have been completed?

I have completed understanding and using the API to grab all the data from basketball-reference.com. I am able to retrieve comma-separated values of basketball statistics. This unprocessed data will be the foundation for my project in the future.

2) Which tasks are pending?

The rest of the tasks are pending, but I have started to analyze and explore the data with scikit-learn. I have been looking at the data through pandas in Python. The method I have decided to use is Singular Value Decomposition/Principal Component Analysis to reduce the dimensionality of the basketball statistics. I have gotten familiar with the sklearn.decomposition.PCA method and have applied it to a smaller subset of the whole data.

3) Are you facing any challenges?

I have not faced any glaring challenges yet.