

System Diagram Write-Up:

In the system diagram, you'll see two different paths in different colors.

BLUE PATH:

The blue path is intended to be path used on a regular basis. The flow is as follows:

- CRON JOB is set up to ping the REST API for play-play-play data at a certain interval. (Maybe daily during the NBA season?)
- CRON JOB then pings my code, telling it to run on the data it just pulled from the REST API
- My code outputs data to a database
- A data scientist will get data from the database

ORANGE PATH:

This path was made for situations where the absolute most up to date data is needed right this second. The flow is as follows:

- Data Scientist will ping REST API
- REST API will ping my code
- My code will ping REST API for play-by-play data directly, and then store it in the database

I thought that providing two options for data retrieval would be a good idea given the industry. The orange path could be very useful when calculating in-game player props, where the most up to date data is needed to make the decisions.

The blue path is intended more for research purposes or helping to develop odds for games and situations where results are not instantly needed.