

Features to inspect:

- Rank
 1. Iron (1-4)
 2. Bronze (1-4)
 3. Silver (1-4)
 4. Gold (1-4)
 5. Platinum (1-4)
 6. Diamond (1-4)
 7. Master
 8. Grandmaster
 9. Challenger
- Ladder rank
- Top 5 Played Champions for S2022
- Top 3 Played Champions for last 20 games
- K average for last 20 games
- D average for last 20 games
- A average for last 20 games
- Preferred position for last 20 games
- Last played champion
- Last Game Results (Victory/Defeat)
 - Defeat = 0
 - Victory = 1

Question/need:

According to user play information, who is the user's next champion?

- What is the framing question of your analysis, or the purpose of the model/system you plan to build?
 - League of Legends often showcases the latest player skins on the front page of their game launcher. If we can predict the next champion the user will play, then we can use this information to our advantage in terms of marketing before the game even begins.
- Who benefits from exploring this question or building this model/system?
 - Riot Games, other game companies that may benefit from knowing this information (for example, Overwatch creates a team of users for each match, but each user needs to act as a certain role. If we can predict who wants to play a tank, support, damage, etc, then we can put together better teams)

Data Description:

- What dataset(s) do you plan to use, and how will you obtain the data?

- I will obtain data using webscraping. I will be scraping from na.op.gg, a website with extensive information about user playing sessions, including their KDA, their favorite champion of the season, as well as of the last 20 games. The website also has information about other games, but we will be focusing in on LOL, as they have the most extensive user information.
- What is an individual sample/unit of analysis in this project? What characteristics/features do you expect to work with?
 - See above for features
 - What we want to predict is the user's next played champion. However, that information is obviously not available to us. Hence, we will want to predict the last played champion instead, so we can verify our predictions.

Tools:

- How do you intend to meet the tools requirement of the project?
 - beautifulsoup + Selenium
 - sklearn

MVP Goal:

- What would a minimum viable product (MVP) look like for this project?
 - kNN model