**SYNOPSIS**

* **Team Members**
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* **Project Goals**

To analyze the performances of different teams and players in Premier League and predict the outcome of upcoming matches.

* **Key Deliverable**
* To determine current form of players.
* To determine current form of teams.
* To predict the outcome of upcoming matches.
* To determine how players will perform against specific teams.
* To predict how teams will lineup according to how their players have performed in the past.
* **Timeline**
* **Data extraction and gathering** (using scraping, etc.): 1-1.5 weeks.
* **Data organization and formatting** (using MongoDB): 1-2 weeks.
* **Data analysis and predictions** (using Python, R, ML): 1-2 weeks.
* **Front end design** (using C#): 1 week.
* **Proposed Approach**We will start with gathering data from different websites using web scraping tools and python scripts. Since most of it will be unstructured and semi-structured, we will use data cleaning and formatting tools to convert all our data in JSON format. Then we will import the data in R and start with analysis and predictions.
* **Project Scope**Since we are using past records to get some interesting insights about the teams, players and their performances, this data will help sports channels and football talk shows to show intriguing facts and figures about the teams and players to the viewers.
* **Project Out of Scope**

Due to insufficient data available, we can’t analyze the style of play the team uses, the physical condition of players and other such parameters can’t be taken into account in our analysis and predictions.