Predicting the UEFA Champions League Winner
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Commitment Level: 9/10

1. Description of the project
The objective of this project is to create a machine learning model that can predict the winner of the UEFA Champions League for a given season. The prediction will be based on various team and player statistics, historical performance, and other relevant features. This model can be a valuable tool for sports analysts, football enthusiasts, and even bettors who are looking to make informed decisions about the potential Champions League winner.

2. What features the data set might include
The dataset will include a lot of features to provide a comprehensive perspective on team and player performance. These features will encompass team statistics such as average goals per game, average possession, and defensive capabilities (e.g., tackles, interceptions), as well as individual player statistics like goals, assists, and player ratings. Other features may include coach experience, past Champions League performance, and current league standings.

Example Data Set Instance:

Team	Season	Avg Goals/game	Avg Possession (%)	Avg Tackles/Game	Avg Pass Accuracy (%)	Top Scorer Goals	Avg Shots/Game	Coach Experience (Years)	Past UCL Titles	Current League Position	Target: UCL Winner
Real Madrid	2022/2023	2.5	67	15	73	34	20	10	14	1	YES

3. How and from where would the data set be gathered and labeled
The data will be gathered from multiple sources, such as the official UEFA website, sports analytics platforms, and football databases. Additionally, historical data can be scraped from archives to include past performances. The labeling process will involve classifying whether a team won the Champions League in a particular season ("Yes" or "No"). All the data will be cleaned, integrated, and prepared for the machine learning training process. This would include the data for all the teams qualifying for this year's tournament and predicting if they will win or not and potentially trying to predict the win rate for every team.

https://editorial.uefa.com/resources/0282-18407aecf6fe-cb82de053b1e-1000/ucl_202223_all-time_md13.pdf

https://www.whoscored.com/Statistics