5. Predicting soccer results

Given the players overall performance indicators obtained on the basis of the players position or role (forward, midfielder, defender and goalkeeper) it is possible to predict the result of the matches.





5. Predicting soccer results

- Dataset:
- +25,000 matches
- +10,000 players
- 11 European Countries with their lead championship
- Seasons 2008 to 2016
- Players and Teams' attributes* sourced from EA Sports' FIFA video game series, including the weekly updates

Player attributes

overall_rating, potential, preferred_foot, attacking_work_rate, defensive_work_rate, ...

Team attributes

chanceCreationPassing, chanceCreationCrossing, chanceCreationShooting, defencePressure,...

5: Predicting soccer results

1. Model: Bayesian Network

- Define the structure of the graphical model
- Define/Estimate the parameters of the model based on your knowledge and/or on the training data

2. Some possible questions?

- Can a BN model WIN/LOSS?
- What is the effect of imbalanced data?
- Can you estimate the sensitivity of the model by considering some subset of variables to make the correct prediction?
- Can you evaluate the impact of different discretization strategies?