



Raw Data to Features

Quiz, 3 questions

1
point

1. What are the characteristics of a good feature?

- ☒ Be numeric with meaningful magnitude
- ☒ Have enough examples in the data
- ☒ Knowable at prediction time
- ☒ Related to the objective
- ☐ Be in free-text format

1
point

2. I want to build a model to predict whether Team A will win its basketball game against Team B. I will train my model on features computed on historical basketball games. One of my features is how many games this season Team A has won. How should I compute this feature?

- ☐ Compute `num_games_won / num_games_played` over the whole season
- ☒ Compute `num_games_won / num_games_played` until the N-1 th game in order to train with the label for the N th game
- ☐ Compute `num_games_won / num_games_played` until the N th game in order to train with the label for the N th game

1
point

3. I want to build a model to predict whether Team A will win its basketball game against Team B. Which of these attributes (computed on historical basketball games) are good features? Assume that these features are all computed appropriately without taking into account non-causal data.

- ☒ How often Team A wins games
- ☐ How often Team A wins games where its opponent is ranked in the top 10
- ☐ How many of the last 7 games that Team A played that it has won
- ☒ The fraction of games that Team A won when it played against Team B when both teams had this exact set of players

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