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 1  #%% md
 2  # Requirement: Get results of last 5 matchs between 2
    teams
 3  #%% md
 4  # Set up
 5  #%%
 6  import pandas as pd
 7  #%% md
 8  # Sourcing
 9  #%%
10  df = pd.read_feather("../data/raw/train.feather")
11  #%%
12  data = df.copy()
13  #%%
14  data.head()
15  #%% md
16  # Coding
17  #%%
18  data = data[['id','target','home_team_name','
    away_team_name','match_date']]
19  #%%
20  data.head()
21  #%%
22  data.groupby(by=['home_team_name','away_team_name'],
    as_index=False).agg({'id':'nunique'}).sort_values(by=
    'id', ascending=False)
23  #%%
24  final_data = data.sort_values(by='match_date',
    ascending=False)
25  #%%
26  final_data['match_result_last_1'] = final_data.
    groupby(by=['home_team_name','away_team_name'],
27
       as_index=False)['target'].shift(-1)
28  final_data['match_date_last_1'] = final_data.groupby(
    by=['home_team_name','away_team_name'],
29
       as_index=False)['match_date'].shift(-1)
30  #%%
31  final_data['match_result_last_2'] = final_data.
    groupby(by=['home_team_name','away_team_name'],
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32
        as_index=False)['target'].shift(-2)
33 final_data['match_date_last_2'] = final_data.groupby(
   by=['home_team_name','away_team_name'],
34
        as_index=False)['match_date'].shift(-2)
35 #%%
36 final_data['match_result_last_3'] = final_data.
   groupby(by=['home_team_name','away_team_name'],
37
        as_index=False)['target'].shift(-3)
38 final_data['match_date_last_3'] = final_data.groupby(
   by=['home_team_name','away_team_name'],
39
        as_index=False)['match_date'].shift(-3)
40 #%%
41 final_data['match_result_last_4'] = final_data.
   groupby(by=['home_team_name','away_team_name'],
42
        as_index=False)['target'].shift(-4)
43 final_data['match_date_last_4'] = final_data.groupby(
   by=['home_team_name','away_team_name'],
44
        as_index=False)['match_date'].shift(-4)
45 #%%
46 final_data['match_result_last_5'] = final_data.
   groupby(by=['home_team_name','away_team_name'],
47
        as_index=False)['target'].shift(-5)
48 final_data['match_date_last_5'] = final_data.groupby(
   by=['home_team_name','away_team_name'],
49
        as_index=False)['match_date'].shift(-5)
50 #%%
51 final_data.head()
52 #%%
53 final_data.to_csv("../data/predicted/
   question_2_submission.csv")
54 #%%
55
```