

**Hi there, My name is Liam Potter and I have been a Liverpool fan for the last 21 Years of my life.**

Not that I had much choice, my father is a die-hard red.

I want to find what aspect of our game most commonly correlates with wins in UEFA Cup games.



Now I love my Club and as of writing, Liverpool is the greatest club in the country, sorry Trent. Though this data is from 2020-22.

So firstly lets see all of their games and some important metrics.

⚙ Soccer DataFrame as

```
SELECT STAGE, TEAM_NAME_HOME AS home_team, TEAM_NAME_AWAY AS away_team, TEAM_HOME_SCORE AS home_goals, TEAM_AWAY_SCORE AS away_goals
FROM SOCCER.TBL_UEFA_2022
WHERE TEAM_NAME_HOME = 'Liverpool'
   OR TEAM_NAME_AWAY = 'Liverpool'
UNION ALL
SELECT STAGE, TEAM_NAME_HOME AS home_team, TEAM_NAME_AWAY AS away_team, TEAM_HOME_SCORE AS home_goals, TEAM_AWAY_SCORE AS away_goals
FROM SOCCER.TBL_UEFA_2021
WHERE TEAM_NAME_HOME = 'Liverpool'
   OR TEAM_NAME_AWAY = 'Liverpool'
UNION ALL
SELECT STAGE, TEAM_NAME_HOME AS home_team, TEAM_NAME_AWAY AS away_team, TEAM_HOME_SCORE AS home_score, TEAM_AWAY_SCORE AS away_goals
FROM SOCCER.TBL_UEFA_2020
WHERE TEAM_NAME_HOME = 'Liverpool'
   OR TEAM_NAME_AWAY = 'Liverpool'
ORDER BY CASE
    WHEN home_team = 'Liverpool' THEN home_goals
    ELSE away_goals
END, STAGE;
```

...	↑↓	STAGE	...	↑↓	HOME_TEAM	...	↑↓	AWAY_TEAM	...	↑↓	H...	...	↑↓	A...	...	↑↓
0		Final			Liverpool			Real Madrid			0			1		
1		Round of 16 second leg			Real Madrid			Liverpool			1			0		
2		Round of 16 second leg			Liverpool			Inter			0			1		
3		Group stage: Matchday 1			Napoli			Liverpool			4			1		
4		Group stage: Matchday 5			Liverpool			FC Porto			1			0		
5		Group stage: Matchday 2			Liverpool			Ajax			2			1		
6		Group stage: Matchday 3			Liverpool			Rangers			2			0		
7		Group stage: Matchday 4			Liverpool			Atlético de Madrid			2			0		
8		Group stage: Matchday 6			Liverpool			Napoli			2			0		
9		Group stage: Matchday 6			Milan			Liverpool			1			2		
10		Round of 16 first leg			Liverpool			Real Madrid			2			5		
11		Round of 16 first leg			Inter			Liverpool			0			2		
12		Semi-finals first leg			Liverpool			Villarreal			2			0		
13		Group stage: Matchday 3			Atlético de Madrid			Liverpool			2			3		
14		Group stage: Matchday 5			Ajax			Liverpool			0			3		
15		Quarter-finals first leg			Benfica			Liverpool			1			3		

Rows: 20

🔗 Expand

Well, there are our key information points, it's a hell of a shame that we lost the Final to Real Madrid, but why could that be? First, let's find our metrics on the final.

⚙ Soccer DataFrame as

```
SELECT *
FROM SOCCER.TBL_UEFA_2021
WHERE STAGE = ' Final ';
```

...	↑↓	...	↑↓	DATE	...	↑↓	...	↑↓	PENS_HO...	...	↑↓	PENS_AW...	...	↑↓	TEAM_N...	...	↑↓	TEAM_N...	...	↑↓
0		Final		2022-05-29T00:00:00.000			FALSE		FALSE			FALSE			Liverpool			Real Madrid		

Rows: 1

🔗 Expand

Possession was almost equal. We took 20 more shots with 12 more on target! We won about half as many duels. And played at Anfield. And yet we lost...

**Data would suggest then that losing duels was our downfall. Let's test if the rest of our dataset agrees with this.**

❄ Soccer DataFrame as

```
SELECT
    TEAM_NAME_HOME AS home_team,
    TEAM_NAME_AWAY AS away_team,
    DUELS_WON_HOME AS home_duels_won,
    DUELS_WON_AWAY AS away_duels_won,
    CASE
        WHEN TEAM_NAME_HOME = 'Liverpool' AND TEAM_HOME_SCORE > TEAM_AWAY_SCORE THEN 'Liverpool Won'
        WHEN TEAM_NAME_AWAY = 'Liverpool' AND TEAM_AWAY_SCORE > TEAM_HOME_SCORE THEN 'Liverpool Won'
        ELSE 'Liverpool Did Not Win'
    END AS liverpool_result
FROM
    SOCCER.TBL_Uefa_2022
WHERE
    TEAM_NAME_HOME = 'Liverpool'
    OR TEAM_NAME_AWAY = 'Liverpool'

UNION ALL

SELECT
    TEAM_NAME_HOME AS home_team,
    TEAM_NAME_AWAY AS away_team,
    DUELS_WON_HOME AS home_duels_won,
    DUELS_WON_AWAY AS away_duels_won,
    CASE
        WHEN TEAM_NAME_HOME = 'Liverpool' AND TEAM_HOME_SCORE > TEAM_AWAY_SCORE THEN 'Liverpool Won'
        WHEN TEAM_NAME_AWAY = 'Liverpool' AND TEAM_AWAY_SCORE > TEAM_HOME_SCORE THEN 'Liverpool Won'
        ELSE 'Liverpool Did Not Win'
    END AS liverpool_result
FROM
    SOCCER.TBL_Uefa_2021
WHERE
    TEAM_NAME_HOME = 'Liverpool'
    OR TEAM_NAME_AWAY = 'Liverpool'

UNION ALL

SELECT
    TEAM_NAME_HOME AS home_team,
    TEAM_NAME_AWAY AS away_team,
    DUELS_WON_HOME AS home_duels_won,
    DUELS_WON_AWAY AS away_duels_won,
    CASE
        WHEN TEAM_NAME_HOME = 'Liverpool' AND TEAM_HOME_SCORE > TEAM_AWAY_SCORE THEN 'Liverpool Won'
        WHEN TEAM_NAME_AWAY = 'Liverpool' AND TEAM_AWAY_SCORE > TEAM_HOME_SCORE THEN 'Liverpool Won'
        ELSE 'Liverpool Did Not Win'
    END AS liverpool_result
FROM
    SOCCER.TBL_Uefa_2020
WHERE
    TEAM_NAME_HOME = 'Liverpool'
    OR TEAM_NAME_AWAY = 'Liverpool'

ORDER BY
    liverpool_result DESC,
    home_duels_won DESC,
    away_duels_won DESC;
```

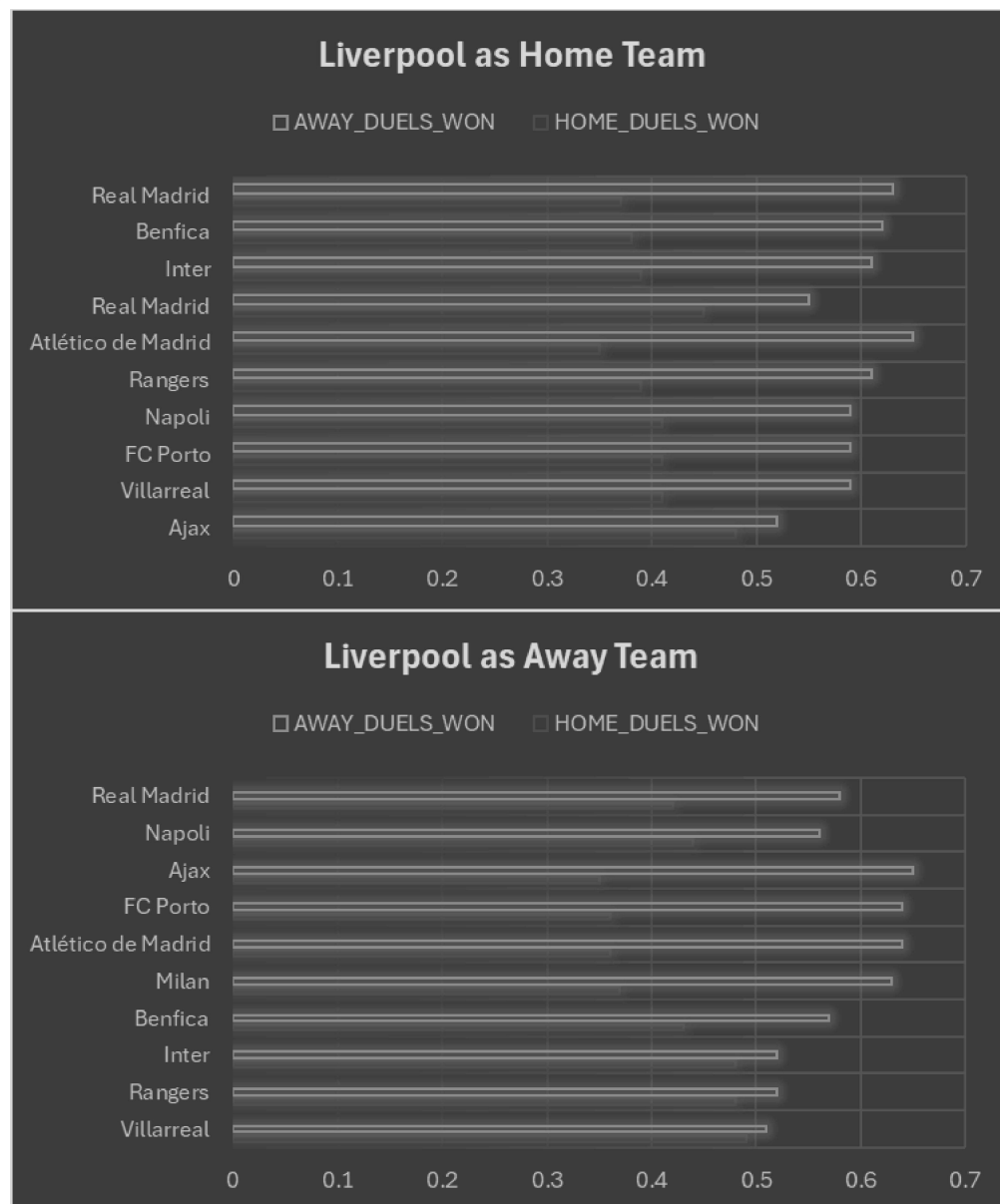
...	↑↓	HOME_TEAM	...	↑↓	AWAY_TEAM	...	↑↓	HOME_...	...	↑↓	AWAY_D...	...	↑↓	LIVERPOOL_RESULT	...	↑↓
	0	Villarreal			Liverpool			0.49			0.51			Liverpool Won		
	1	Liverpool			Ajax			0.48			0.52			Liverpool Won		
	2	Rangers			Liverpool			0.48			0.52			Liverpool Won		
	3	Inter			Liverpool			0.48			0.52			Liverpool Won		
	4	Benfica			Liverpool			0.43			0.57			Liverpool Won		
	5	Liverpool			Villarreal			0.41			0.59			Liverpool Won		
	6	Liverpool			FC Porto			0.41			0.59			Liverpool Won		
	7	Liverpool			Napoli			0.41			0.59			Liverpool Won		
	8	Liverpool			Rangers			0.39			0.61			Liverpool Won		
	9	Milan			Liverpool			0.37			0.63			Liverpool Won		
	10	Atlético de Madrid			Liverpool			0.36			0.64			Liverpool Won		
	11	FC Porto			Liverpool			0.36			0.64			Liverpool Won		
	12	Ajax			Liverpool			0.35			0.65			Liverpool Won		

13	Liverpool	Atlético de Madrid	0.35	0.65	Liverpool Won
14	Liverpool	Real Madrid	0.45	0.55	Liverpool Did Not Win
15	Napoli	Liverpool	0.44	0.56	Liverpool Did Not Win

Rows: 20

[Expand](#)

Great, Now lets move this data to try to find some Insights.



Firstly we see that Liverpool regardless of home or away play very consistently. Liverpool rarely has more success in duels even against lower quality teams. Klopp likely focuses on other methods of scoring than individual brilliance



This table now shows us how duels won correlate with wins and losses across all years. This data is significant and gives us insight into what may be causing us to lose many matches. Further analysis could look into why our players are beating some teams 1 on 1 and not others both for defenders and attackers.

```
# Overall then we would consult Liverpool FC to focus more completely at 1-on-1 interactions to improve the form of our team, and get us into a few more finals.
```

I hope you have enjoyed reading.

– By Liam Potter