


AI SCORESIGHT

Current Progress Recap ☒

Dataset	Shape	Description	Status
Team-Match	$9,380 \times 42$	Match-level + team stats	<input checked="" type="checkbox"/> Done
Player-Team	324×29	Player-level + team stats	<input checked="" type="checkbox"/> Done
EPL Final	$9,380 \times 22$	Will be used for validation	 Next

-> EPL FINAL VALIDATION

Conclusion 

- EPL Final is a duplicate of Match Winner.
- We can safely drop EPL Final from future processing to avoid redundancy.

Current Progress Recap ☒

Dataset	Shape	Description	Status
Match Winner	$9,380 \times 22$	Base match-level data	<input checked="" type="checkbox"/> Done
PL Tables	646×12	Team-level stats	<input checked="" type="checkbox"/> Done
Top Goals	324×19	Player-level stats	<input checked="" type="checkbox"/> Done
Team-Match	$9,380 \times 42$	Match + team stats	<input checked="" type="checkbox"/> Built
Player-Team	324×29	Player + team stats	<input checked="" type="checkbox"/> Built

Dataset	Shape	Description	Status
EPL Final	9,380 × 22	Duplicate of Match Winner	<input checked="" type="checkbox"/> Droppable

Now that we've cleaned, standardized, merged, and validated everything, we can move to Next **Step** :

EDA Roadmap 🗺️

Phase 1 → Match-Level Insights 🏟️

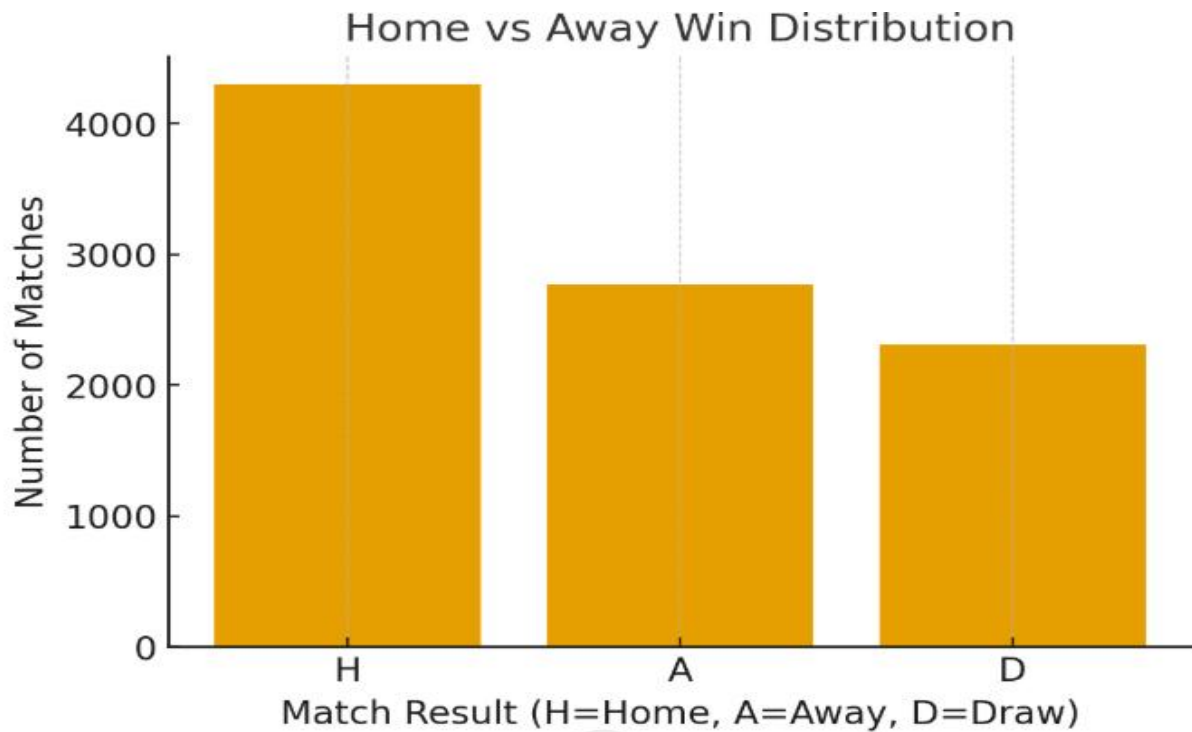
- Home vs Away win distribution
- Goal-scoring patterns
- Most common match scores
- Cards, fouls & corners analysis

Phase 2 → Team-Level Insights 🏆

- Top-performing teams (points, goals, wins)
- Defensive vs attacking strength
- Seasonal trends

Phase 3 → Player-Level Insights 🧑🏼 ⚽

- Top scorers per season
- Goal-per-90 analysis
- Big 6 contribution vs rest



Match-Level Insight #1 → Home vs Away Advantage

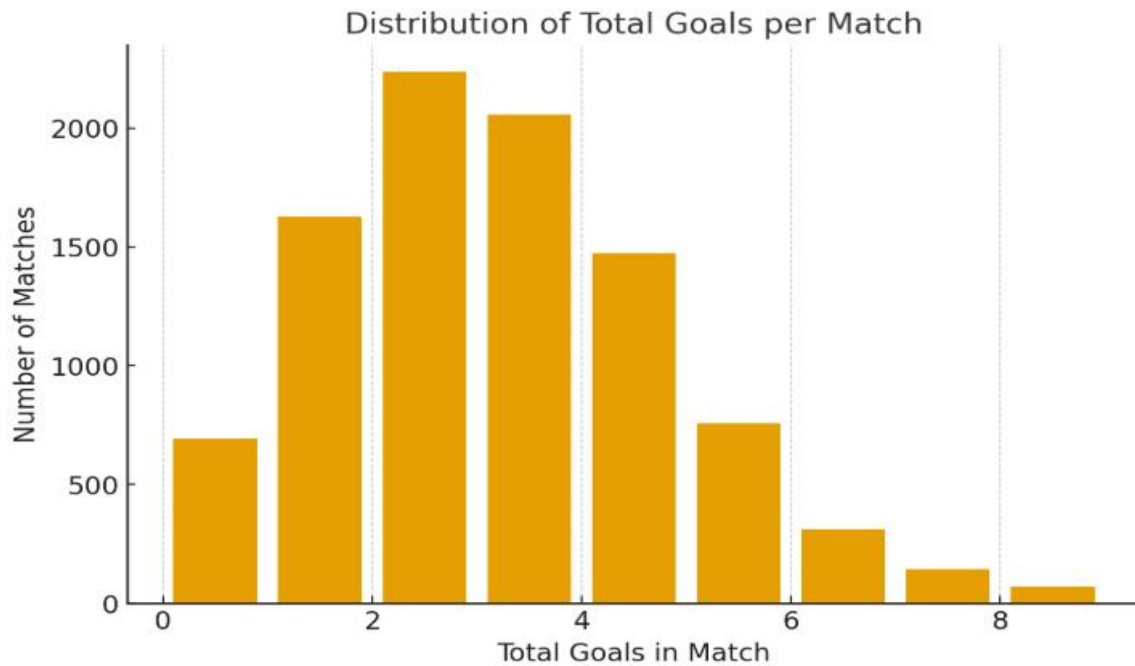
From **9,380 matches**:

- **Home Wins (H):** 4,299 matches → **46%**
- **Away Wins (A):** 2,768 matches → **29%**
-
- **Draws (D):** 2,313 matches → **25%**
-

Insight:

The Premier League shows a **strong home advantage** — nearly **1.5× more home wins** than away wins.

Match-Level Insight #2 → Goal-Scoring Patterns ⚽



From **9,380 matches**

Average Goals per Match: ≈ 2.72

Average Home Goals: ≈ 1.54

Average Away Goals: ≈ 1.18

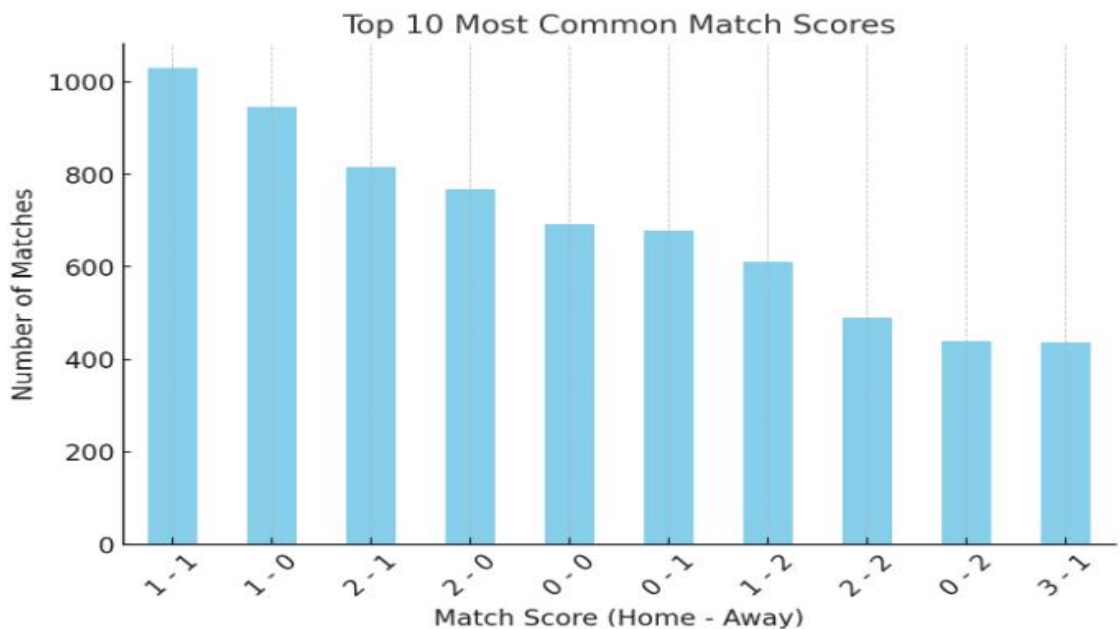
Distribution: Most matches have **2–3 total goals**.

Very few matches end with **0 goals (goalless draws)** or **6+ goals** (high-scoring thrillers)

Insight: Home teams score about **30% more goals** than away teams.

A typical EPL match is a **2–1 or 1–1 scoreline**.

Match-Level Insight #3 → Most Common EPL Match Scores



Match-Level Insight #3 → Most Common EPL Match Scores

Rank	Score	Matches	Insight
1	1 - 1	1,031	Most common → balanced draws
2	1 - 0	947	Typical narrow home wins
3	2 - 1	816	Very common comeback wins
4	2 - 0	768	Solid home victories
5	0 - 0	692	Goalless draws are frequent
6	0 - 1	679	Tight away wins
7	1 - 2	610	Close away victories
8	2 - 2	490	High-scoring draws
9	0 - 2	439	Comfortable away wins
	3 - 1	437	Home dominance

From **9,380 matches**, the **top 10 most frequent scorelines** are:

Key Takeaways:

1-1 is the most common EPL result (~11% of all matches).

Narrow wins dominate the league, especially **1-0** and **2-1**.

High-scoring thrillers (**3+ goals**) are **rare but impactful**.

Match-Level Insight #4 → Cards & Fouls Analysis



From **9,380 matches**, here's the disciplinary breakdown:

A. Yellow Cards

Home Teams: ≈ 1.47 per match

Away Teams: ≈ 1.79 per match

Away teams receive **$\sim 21\%$ more yellow cards** \rightarrow possible home referee bias or defensive tactics

B. Red Cards

Home Teams: ≈ 0.06 per match (~ 1 every 16 matches)

Away Teams: ≈ 0.09 per match (~ 1 every 11 matches)

Away teams get **$\sim 40\%$ more red cards** \rightarrow suggests added pressure when playing away.

C. Fouls

Home Teams: ≈ 11.28 per match

Away Teams: ≈ 11.77 per match

Fouls are **almost balanced**, but away teams still commit slightly more ($\sim 5\%$).

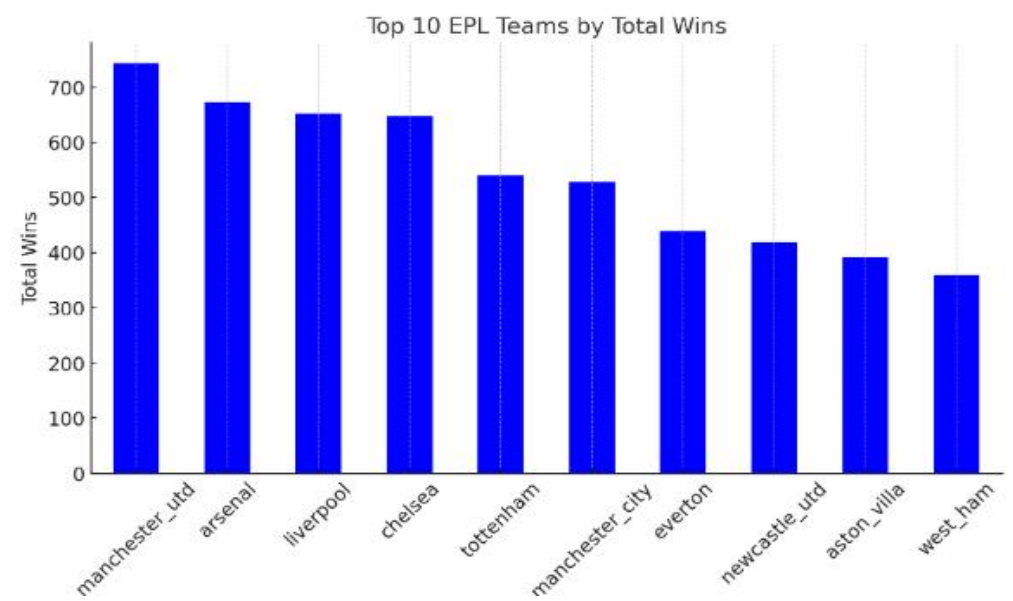
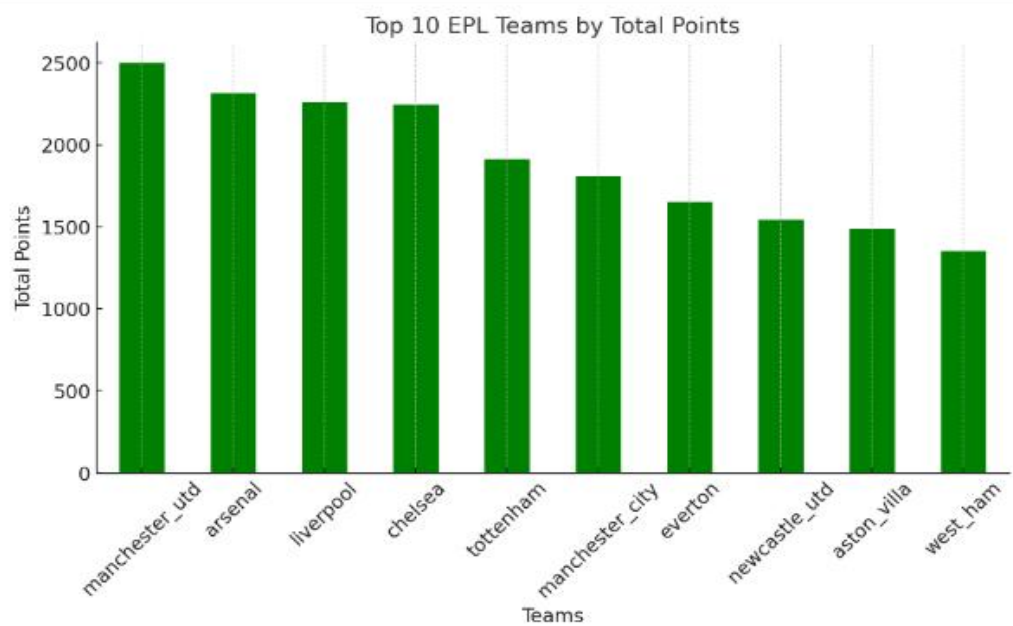
Key Takeaways ✓

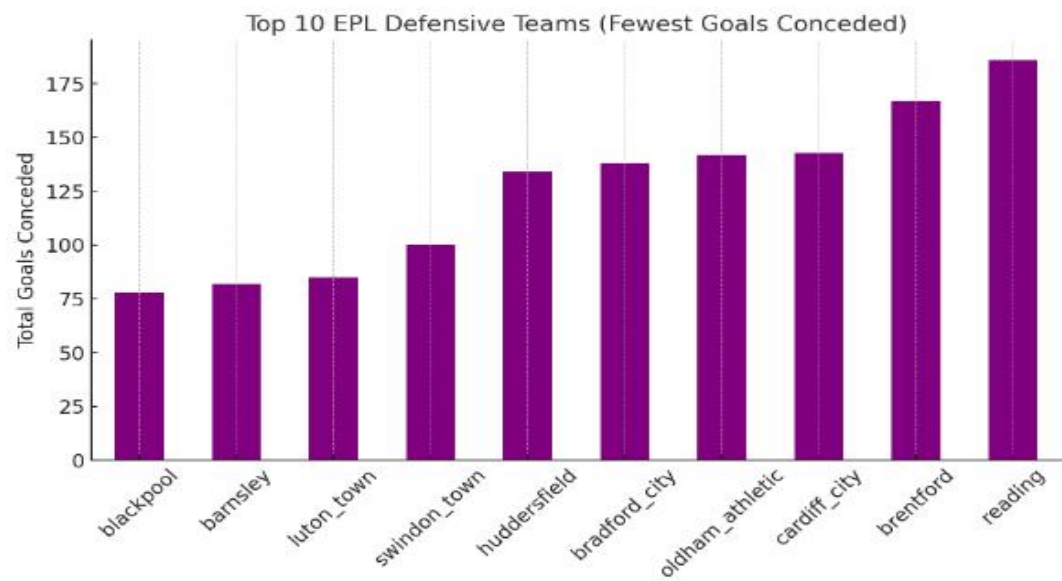
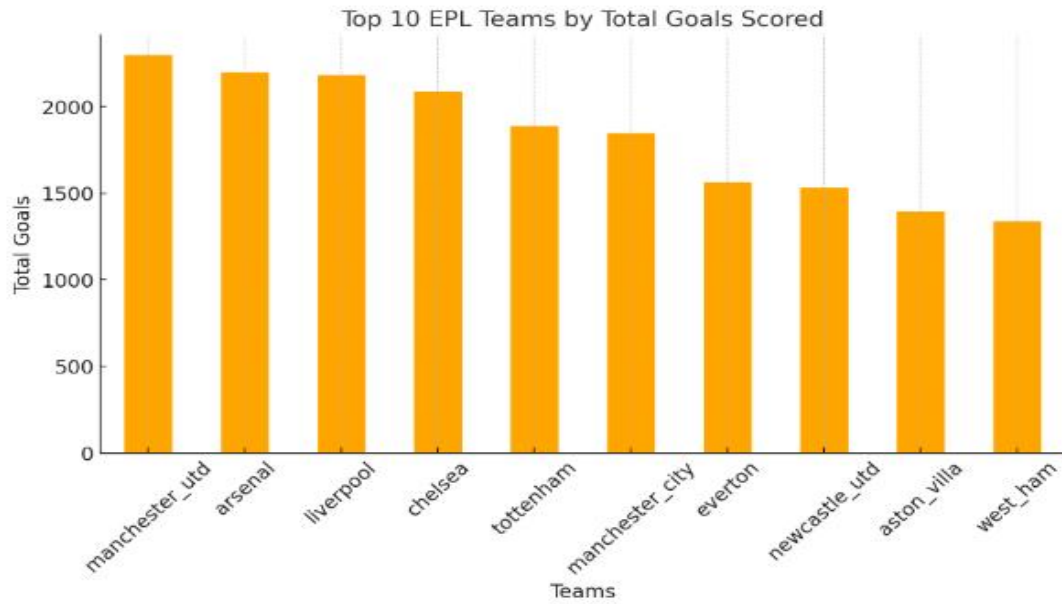
Away teams generally receive **more cards** than home teams.

EPL matches average **~ 23 total fouls** per game.

Disciplinary trends favor **home teams slightly**.

Team-Level Insights #1 → All-Time EPL Team Rankings





A. Top 10 Teams by Total Points

Rank	Team	Points
1	Manchester Utd	2,501
2	Arsenal	2,314
3	Liverpool	2,258
4	Chelsea	2,245
5	Tottenham	1,913

Rank	Team	Points
6	Manchester City	1,809
7	Everton	1,650
8	Newcastle Utd	1,541
9	Aston Villa	1,487
	West Ham	1,350

Insight: Manchester United dominates historically, but Arsenal, Liverpool, Chelsea, and City are close.

B. Top 10 Teams by Total Wins

Rank	Team	Wins
1	Manchester Utd	744
2	Arsenal	673
3	Liverpool	652
4	Chelsea	647
5	Tottenham	540
6	Manchester City	529
7	Everton	439
8	Newcastle Utd	419
9	Aston Villa	392
	West Ham	360

C. Best Attacking Teams (Most Goals Scored) ⚽

Rank	Team	Goals
1	Manchester Utd	2,300
2	Arsenal	2,197
3	Liverpool	2,182
4	Chelsea	2,088
5	Tottenham	1,889
6	Manchester City	1,848

D. Best Defensive Teams (Fewest Goals Conceded)

Rank	Team	Goals Conceded
1	Blackpool	78
2	Barnsley	82
3	Luton Town	85
4	Swindon Town	100
5	Huddersfield	134
6	Bradford City	138
7	Oldham Athletic	142
8	Cardiff City	143
9	Brentford	167
	Reading	186

Note: These defensive leaders are **smaller clubs** that have played fewer seasons, which skews the data.