

J-LEAGUE DATA ANALYSIS PROJECT REPORT

The purpose of the project is to derive insights from the current J1 League table. Below are the steps taken and analysis I conducted.

1. Data Scraping

I first decided to scrape the current J1 League table from the official website. I used the BeautifulSoup library to help me parse HTML, extract the table data and create the data frame.

2. Data Preparation

I removed special characters to avoid discrepancies. I then converted columns into their appropriate data types. Numeric columns were converted to ints and text columns were converted to string.

3. Goals Scored Analysis

I then plotted the top 10 teams with the most goals scored using Matplotlib

- **Insight:** FC Machida Zelvia and Kashima Antlers are tied for the most goals scored as of May 28th, with 27 each.

I then plotted the top 10 teams with the least goals scored using Matplotlib

- **Insight:** Kyoto Sanga FC scored the least number of goals as of May 28th, with 12.

4. Goals Scored Grouping

I then grouped by the number of total goals scored, counted how many teams scored that number of goals, and listed the team names next to the count

- **Insight:** The modal number of goals scored is 22, as of May 28th. 3 teams (Cerezo Osaka, Jubilo Iwata, and Shonan Bellmare) have scored that many.

5. Goals Conceded Analysis

I then plotted the top 10 teams with the least goals conceded using Matplotlib

- **Insight:** Gamba Osaka have conceded the least number of goals as of May 28th, with 11.

I then plotted the top 10 teams with the most goals conceded using Matplotlib

- **Insight:** Hokkaido Consadole Sapporo have conceded the most number of goals as of May 28th, with 31.

6. Goals Conceded Grouping

I then grouped by the number of total goals conceded, counted how many teams conceded that number of goals, and listed the team names next to the count

- **Insight:** The modal number of goals conceded is 17, as of May 28th. 4 teams (Kashima Antlers, Nagoya Grampus, Kashiwa Reysol, and Avispa Fukuoka) have conceded that many.

7. Recent Form Analysis

I then displayed the number of points each team earned in their last 5 matches in descending order alongside its position. I then plotted the number of points each team earned in their last 5 matches (in descending order) using Matplotlib

- **Insight:** FC Machida Zelvia, Gamba Osaka, and Kashima Antlers have earned the most points in their last 5 matches, as of May 28th, earning 13.

8. Goal Difference Analysis

I then plotted the goal difference by team (in descending order) using Matplotlib

- **Insight:** FC Machida Zelvia has the best goal difference as of May 28th, with 15. Hokkaido Consadole Sapporo and Kyoto Sanga are tied for the worst goal difference, with -18 each.

I then grouped by the goal difference (in descending order), counted how many teams had that goal difference, and listed the team names next to the count

- **Insight:** The modal goal differences are 4 and -2 as of May 28th. Gamba Osaka, Urawa Reds, and Cerezo Osaka have a goal difference of 4. Avispa Fukuoka, Tokyo Verdy, and Jubilo Iwata have a goal difference of -2.

9. Points Grouping

I then grouped by the number of points (in descending order), counted how many teams scored earned that many points, and listed the team names next to the count

- **Insight:** The modal number of points a team has are 24, 23, 22, 17, and 14 as of May 28th, with 2 teams each having that many points.

10. Points Per Game Analysis

I then displayed the position alongside the number of points each team earned per game (in descending order)

- **Insight:** FC Machida Zelvia earned the most points per game as of May 28th, with 2.1875 points/game. Kyoto Sanga earned the least number of points per game, with 0.625 points/game