



FIFA WORLD CUP DASHBOARD

Project Title	FIFA World Cup
Technologies	Business Intelligence
Domain	Sports
Project Difficulties Level	Advanced
Programming Language Used	Python
Tool Used	Jupyter Notebook, Ms-Excel, Power BI

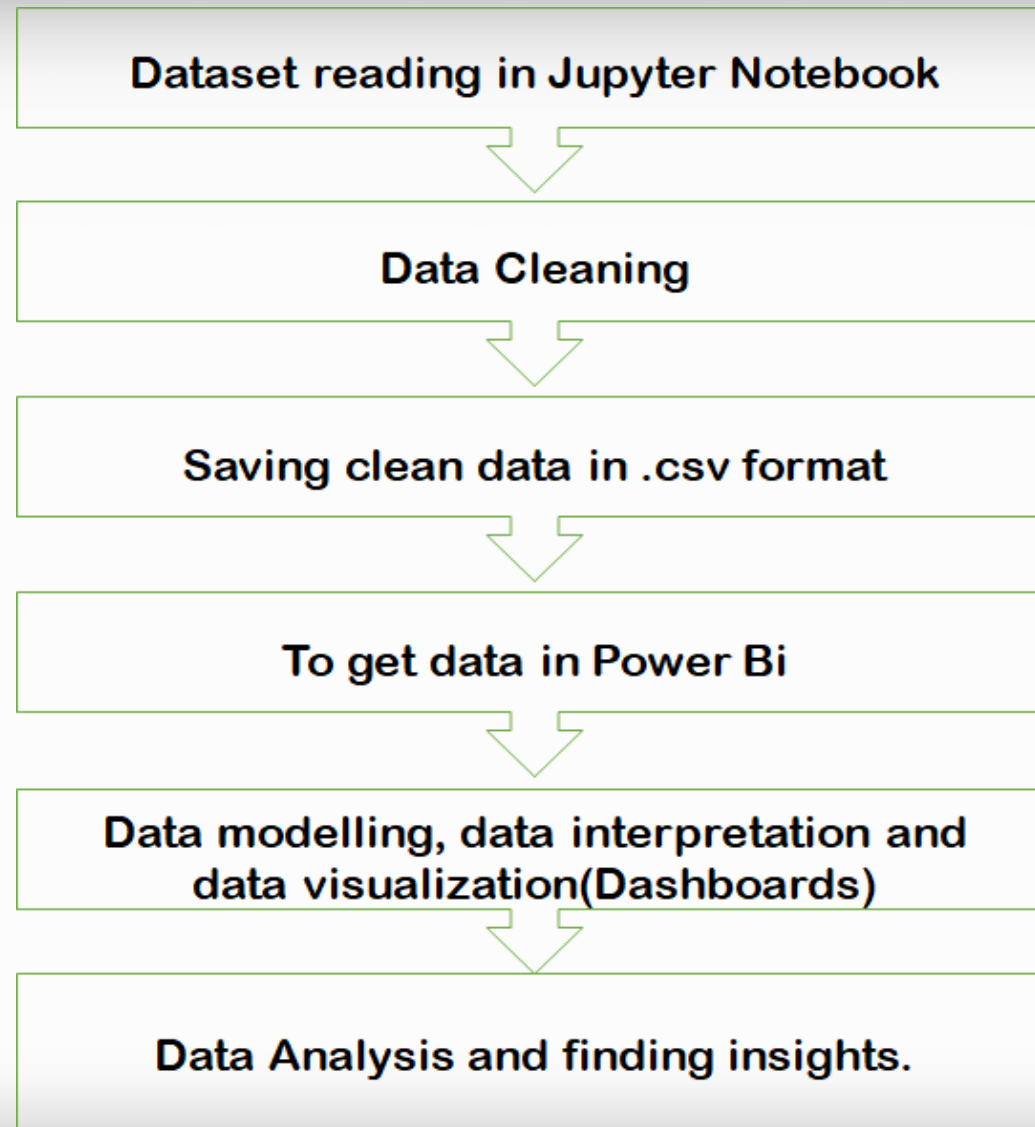
OBJECTIVE

The objective is to explore the FIFA World Cup data and to find the insights and trends. The data of World Cup is from 1930-2014 and the different datasets are give from which we have to find insights and to create a dynamic dashboard, so we can have different pages and we can checks the stats of Team, Player, Stadium and World Cup insights.

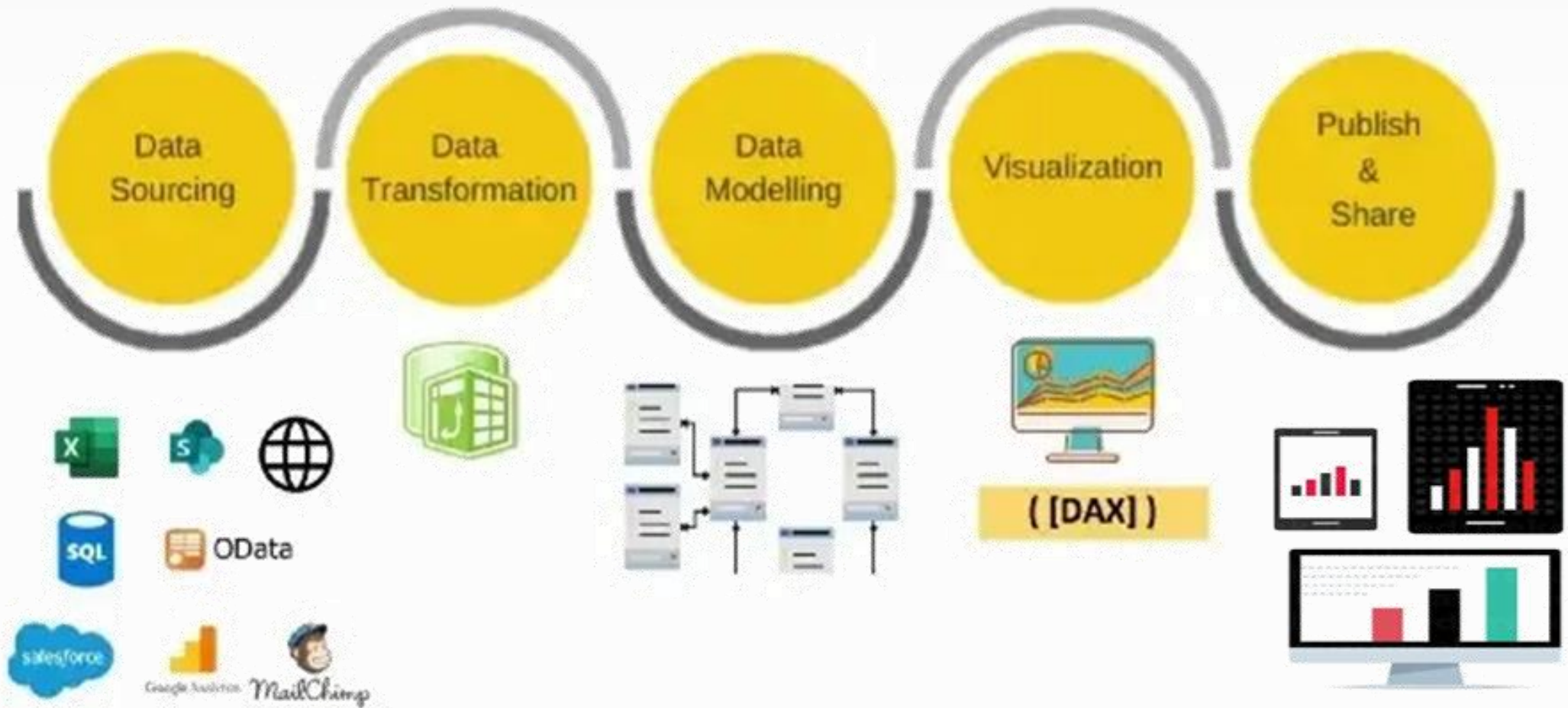
PROBLEM STATEMENT

- ☐ From the given datasets we have to find stats of FIFA world cup from 1930-2014.
- ☐ To clean the dataset where the dataset had spelling mistakes and correct them.
- ☐ To check data type and correct where it is required.
- ☐ Dropping unused columns and rows
- ☐ To create new columns and new measures required for finding the in-depth facts from the given datasets.
- ☐ To create different dashboard so, we can check the data for particular point and focus on it like team, player, stadium etc.

DESIGN DETAILS



ARCHITECTURE



DATASET INFORMATION

Dataset file name :- WorldCupMatches

Column	Column Description
Year	Year in which FIFA world cup played
Datetime	Date and time of match played
Stage	Different stages(level) of match
City	City name in which match played
Home Team Name	Name of team hosting match
Home Team Goals	Number of goals scored in home ground
Away Team Goals	Number goals scored by away(visiting) team
Away Team Name	Team visiting for playing match
Win condition	Win type for knock out matches
Attendance	Number of audiences in stadium per match
Half-time Home Goals	Number of goals scored in half time by home teams
Half-time Away Goals	Number of goals scored in half time by away teams
Referee	discretion to take appropriate action within the framework of the Laws of the Game.
Assistant 1	Referee outside field
Assistant 2	Referee outside field
RoundID	Stage match ID
MatchID	Every match ID
Home Team Initials	Abbreviation of country
Away Team Initials	Abbreviation of country

Dataset file name :- WorldCupPlayers

Column	Column Description
RoundID	Stage match ID
MatchID	Every match ID
Team Initials	Abbreviation of country
Coach Name	Coach of Team
Line-Up	Player position(role) in match
Shirt-Number	Number on Team jersey
Player Name	Name of player

Dataset file name :- WorldCup

Column	Column Description
Year	FIFA World Cup Played year
Winner	FIFA World Cup winner
Runners-Up	2 nd position team
Third	3 rd position team
Fourth	4 th position team
GoalScored	Total goals scored in FIFA World Cup by Year
Qualified Team	Number of team qualified for FIFA world cup
MatchesPlayed	Number of matches played in FIFA world Cup
Attendance	Total attendance in FIFA World Cup by year

DASHBOARD HOME PAGE

DASHBOARD
NAME

FIFA WORLD CUP DASHBOARD

PAGE
NAVIGATION
BUTTONS

FIFA

WC 1930-2014

TEAM

PLAYER

STADIUM

FIFA WORLD CUP PAGE

DASHBOARD
NAME

YEAR
SLICER

On changing
the year in
slicer, the
dashboard will
show the stats
of that
particular year.



NEXT
DASHBOARD
PAGE

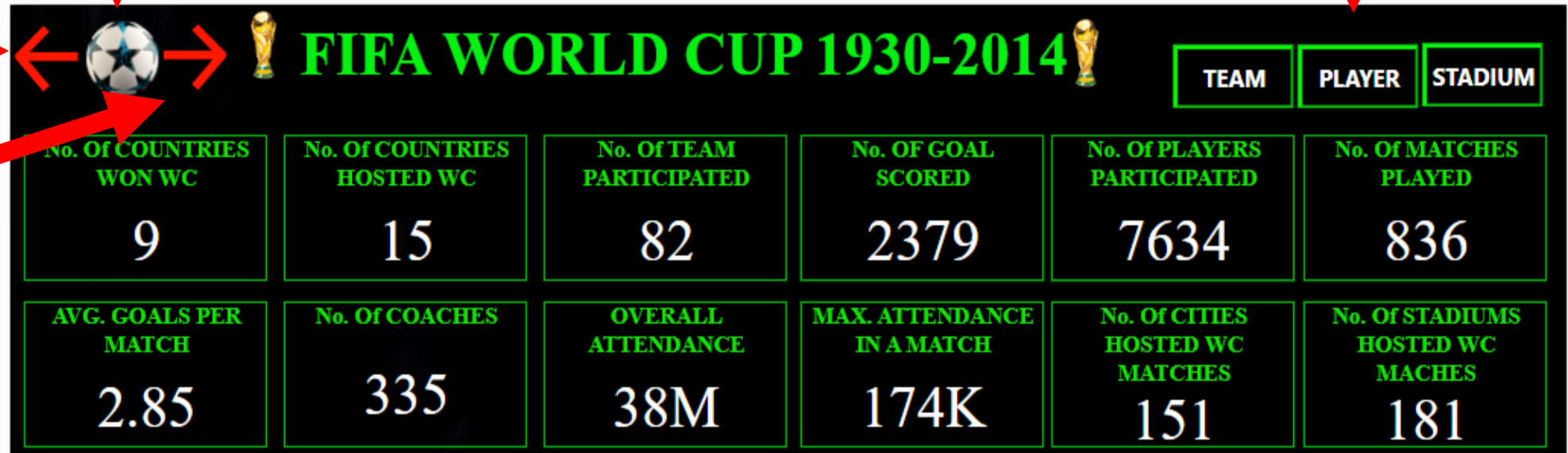
INSIGHTS
BUTTON

FIFA WORLD CUP 1930-2014

HOME PAGE
BUTTON

DASHBOARD
BUTTONS

PREVIOUS
and NEXT
DASHBOARD
BUTTON



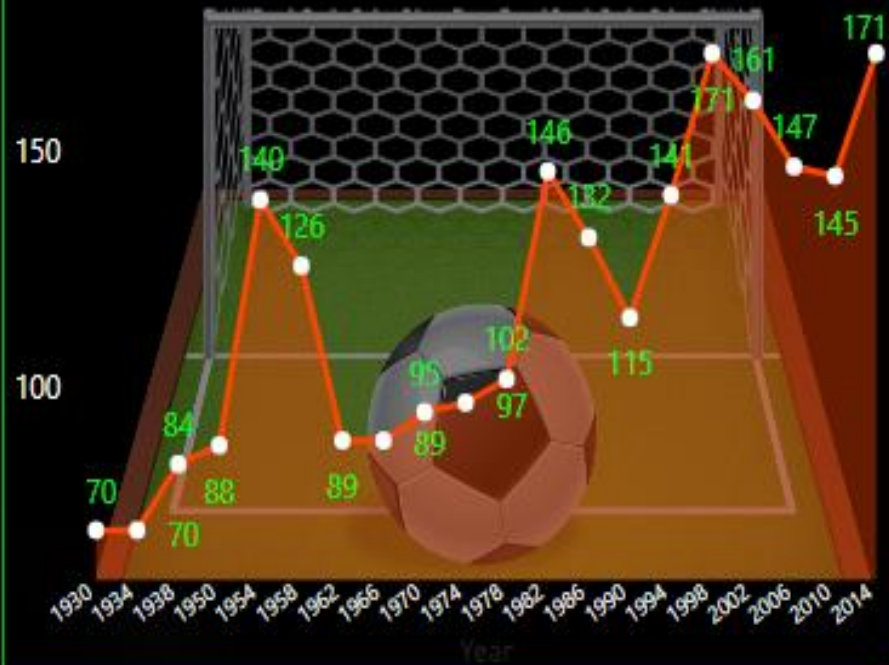
The dashboard features a dark background with green text and borders. At the top, a navigation bar includes a soccer ball icon with left and right arrows, the title 'FIFA WORLD CUP 1930-2014' flanked by trophy icons, and three filter buttons: 'TEAM', 'PLAYER', and 'STADIUM'. Below this is a 2x6 grid of statistics. Red arrows point to the navigation elements from external labels: 'HOME PAGE BUTTON' points to the soccer ball icon, 'DASHBOARD BUTTONS' points to the filter buttons, and 'PREVIOUS and NEXT DASHBOARD BUTTON' points to the left and right arrows.

FIFA WORLD CUP 1930-2014						TEAM	PLAYER	STADIUM
No. Of COUNTRIES WON WC	No. Of COUNTRIES HOSTED WC	No. Of TEAM PARTICIPATED	No. OF GOAL SCORED	No. Of PLAYERS PARTICIPATED	No. Of MATCHES PLAYED			
9	15	82	2379	7634	836			
AVG. GOALS PER MATCH	No. Of COACHES	OVERALL ATTENDANCE	MAX. ATTENDANCE IN A MATCH	No. Of CITIES HOSTED WC MATCHES	No. Of STADIUMS HOSTED WC MACHES			
2.85	335	38M	174K	151	181			

OVERALL FIFA WORLD CUP STATS FROM 1930-2014.

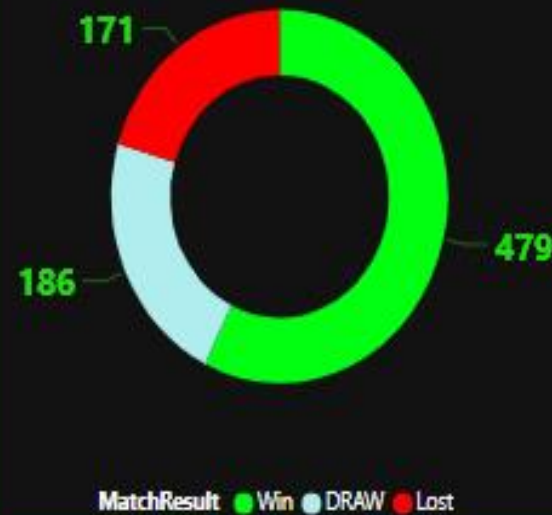
FIFA WORLD CUP 1930-2014

GOALS TREND by YEAR



Number of goals scored are increasing because number of matches also increased in FIFA world cup.

Overall Match Results in WC



Donut chart showing the results of overall matches played in FIFA world cup from 1930-2014.

Attendance by Year



Line chart showing the increase in the audiences in FIFA World Cup because matches also increase and capacity of stadiums are increased.

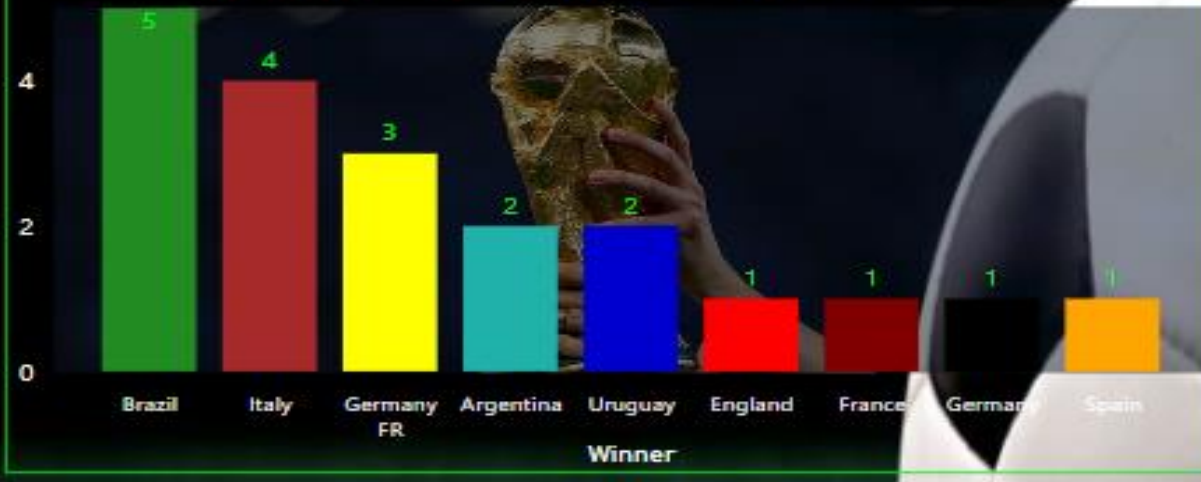
FIFA WORLD CUP 1930-2014

% of Goals Scored by Teams on Home and Away Grounds 1930-2014



100% stacked bar chart shows that Home team scored more number of goals on their home grounds.

FIFA WC WINNING COUNTRY COUNT



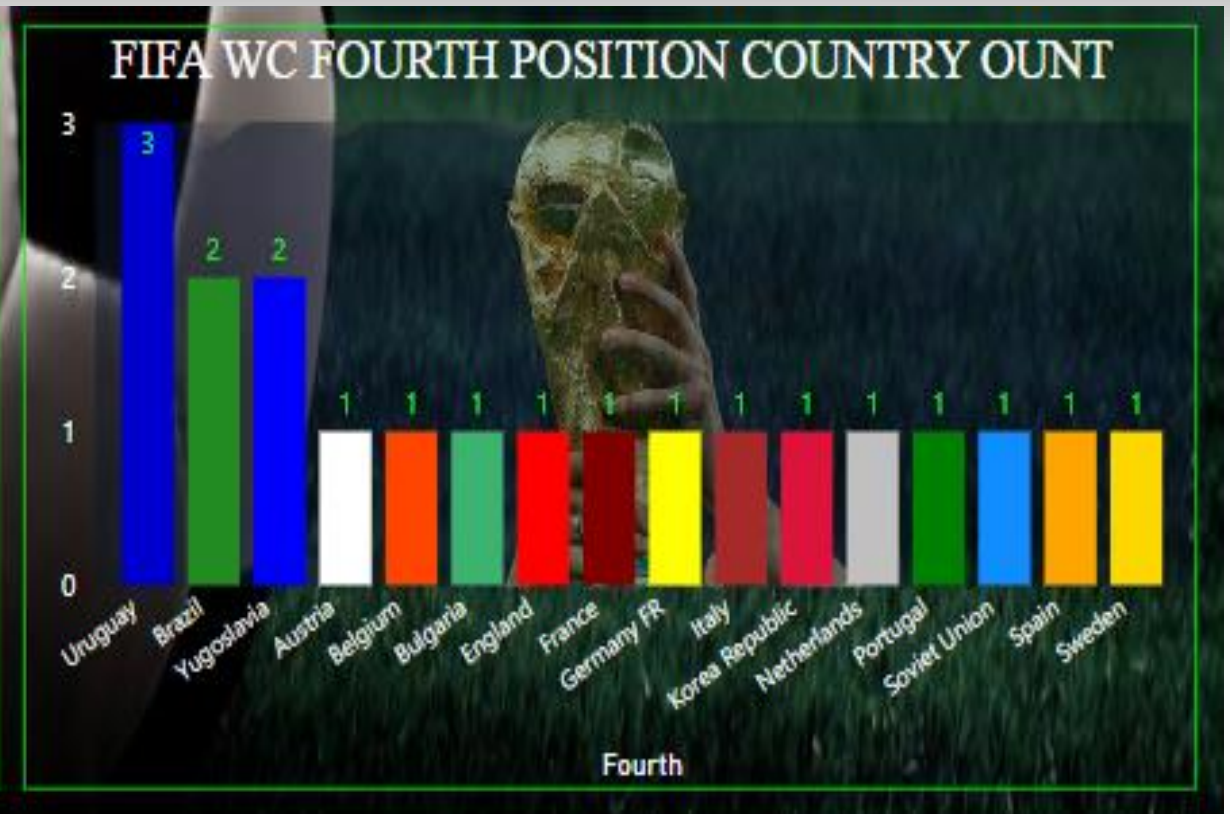
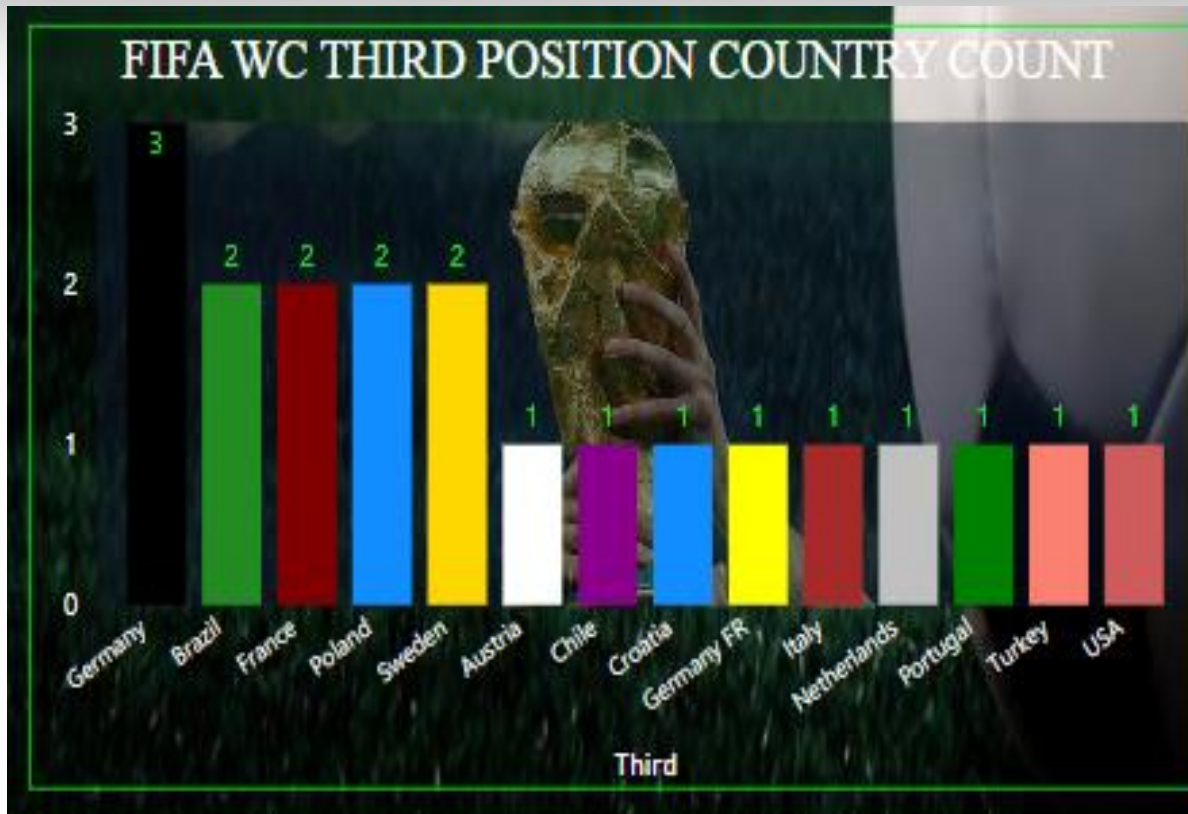
FIFA WC RUNNERS-UP COUNTRY COUNT



Most FIFA World Cup Titles won Brazil 5 times.
Italy and Germany(considering Germany FR) are
second most successful team 4 times.

Most second place team is Germany 4 times.
Argentina and Netherlands 3times

FIFA WORLD CUP 1930-2014



Most third place finishes team is Germany 4 times.

Most fourth place finishes team is Uruguay 3 times.

TEAM STATS

It will clear all the selected slicer and filters

Table shows the team stats which you selected with year.



Table shows the squad in FIFA world cup according to year.

PLAYER STATS

It will clear
all the
selected
slicer and
filters

Select
Team from
slicer

Select
Player
from slicer

The dashboard features a 'PLAYER STATS' title and three slicers: 'TEAM', 'PLAYER', and 'STADIUM'. Below these are two filters: 'COUNTRY' (set to 'POR') and 'PLAYER NAME' (set to 'RONALDO'). A 'CLEAR FILTERS' button is located at the top left. To the right of the filters is a 'No. of Matches Played in WC' matrix. Below the filters is a large table showing player statistics across various matches.

COUNTRY		PLAYER NAME		No. of Matches Played in WC				
POR		RONALDO		Player Name	2006	2010	2014	Total
				RONALDO	7	4	3	14

Year	T-Shirt	Hosting Country	Stadium	Stage	Month	Day	Match	Match Score
2006	17	Germany	FIFA World Cup Stadium, Cologne	Group D	June	11	Angola VS Portugal	0 - 1
2006	17	Germany	FIFA World Cup Stadium, Frankfurt	Group D	June	17	Portugal VS Iran	2 - 0
2006	17	Germany	FIFA World Cup Stadium, Gelsenkirchen	Group D	June	21	Portugal VS Mexico	2 - 1
2006	17	Germany	FIFA World Cup Stadium, Gelsenkirchen	Quarter-finals	July	1	England VS Portugal	0 - 0
2006	17	Germany	Franken-Stadion	Round of 16	June	25	Portugal VS Netherlands	1 - 0
2006	17	Germany	FIFA World Cup Stadium, Munich	Semi-finals	July	5	Portugal VS France	0 - 1
2006	17	Germany	Gottlieb-Daimler-Stadion	Third place	July	8	Germany VS Portugal	3 - 1
2010	7	South Africa	Port Elizabeth Stadium	Group G	June	15	C te d'Ivoire VS Portugal	0 - 0
2010	7	South Africa	Cape Town Stadium	Group G	June	21	Portugal VS Korea DPR	7 - 0
2010	7	South Africa	Durban Stadium	Group G	June	25	Portugal VS Brazil	0 - 0
2010	7	South Africa	Cape Town Stadium	Round of 16	June	29	Spain VS Portugal	1 - 0
2014	7	Brazil	Arena Fonte Nova	Group G	June	16	Germany VS Portugal	4 - 0
2014	7	Brazil	Arena Amazonia	Group G	June	22	USA VS Portugal	2 - 2
2014	7	Brazil	Estadio Nacional	Group G	June	26	Portugal VS Ghana	2 - 1

Matrix
shows player
matches
played in
FIFA world
cup by year.

Table shows
player stats
in FIFA
world cup.

STADIUM STATS

It will clear
all the
selected
slicer and
filters



Table shows
the stats of
stadiums.

Slicer
Hosting
country
Slicer
Stadium

Stadium
Count

World Map
shows the
countries
hosted
FIFA world
cup.

INSIGHTS

- ❑ The 1930 FIFA World Cup Final :-The now-traditional [third place play-off](#) was not established until [1934](#), so the format of the 1930 World Cup is unique in not distinguishing between the third and fourth placed teams.
- ❑ The 1950 [FIFA World Cup](#) was a [football sporting event](#) that was held in [Brazil](#) in 1950. This competition was special compared to other FIFA World Cup tournaments as the winner was decided by winning a mini-league instead of a knock-out game. [Uruguay](#) won the trophy after finishing higher than [Brazil](#), [Sweden](#) and [Spain](#) in the final group stage.
- ❑ The tournament has been held every four years since the [inaugural tournament in 1930](#), except in 1942 and 1946 when it was not held because of the [Second World War](#).
- ❑ The 1958 final holds the [record](#) for most goals scored in a World Cup Final, and it shares the record for the greatest winning margin.
- ❑ [1994 FIFA World Cup Brazil](#) :-beat [Italy](#) 3–2 on [penalties](#) to claim their fourth World Cup title when the game finished 0–0 after [extra time](#); this meant that Brazil surpassed Italy and Germany as the tournament's most successful nation.
- ❑ The 2006 FIFA World Cup Final :-Italy won the World Cup after beating France 5–3 in a [penalty shoot-out](#) following a 1–1 draw at the conclusion of [extra time](#).

INSIGHTS

- ❑ Most titles won - 5, [Brazil](#) (1958, 1962, 1970, 1994, 2002)
- ❑ Most second-place finishes - 4, [Germany](#) (1966, 1982, 1986, 2002)
- ❑ Most third-place finishes -4, [Germany](#) (1934, 1970, 2006, 2010)
- ❑ Most fourth-place finishes - 3, [Uruguay](#) (1954, 1970, 2010)

TEAM

- ❑ In the WolrdcupPlayer dataset there are spelling mistakes in some players name but for Serbia Team the player names can't be correct because there is so many spelling mistakes and not matching with the selected team in FIFA WC team.
- ❑ Biggest margin of victory :- Hungary 10–1 [El-Salvador](#), 1982
- ❑ Most goals scored in a match, both teams 12 Goals, Austria 7–5 Switzerland, 1954
- ❑ Highest scoring draw :- 4–4, [England](#) vs Belgium (a.e.t.), 1954 and [Soviet Union](#) vs [Colombia](#), 1962.
- ❑ Most consecutive championships 2 Times, [Italy](#) (1934–1938), [Brazil](#) (1958–1962)
- ❑ Host team
Best finish by host team Champion: Uruguay (1930), Italy (1934), England (1966), West Germany (1974), Argentina (1978), France (1998)

Q & A

Q1) What's the source of data?

ANS- The dataset given by iNeuron. The dataset link is given in FIFA world cup internship description document.

Dataset Link - [World Cup Data Analysis - Google Drive](#)

Q 2) What was the type of data?

ANS- The data was the combination of numerical and Categorical values.

Q 3) What's the complete flow you followed in this Project?

ANS- Refer slide 5th and 6th for better Understanding.

Q 4) What techniques were you using for data pre-processing?

- ☐ Removing unwanted attributes
- ☐ Cleaning data and imputing if null values are present.
- ☐ Correcting the data types where it is needed.
- ☐ Correcting spelling mistakes.
- ☐ Created new columns and measures.

Q 5) How you perform data pre processing?

ANS- The data is cleaned using python libraries and Power query.

Q 6) Which Python libraries you have used?

ANS- NumPy and Pandas.