

Title:- “Automating FIFA World Cup Finals Data Extraction & Google Sheets Integration.”

Objective:- Extract FIFA World Cup Final results from Wikipedia and append them to Google Sheets using Postman API.

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Step1:- Open Wikipedia Page

- 1. Open Browser (Chrome)
- 2. Go to Wikipedia Page:
- 3. URL:- https://en.wikipedia.org/wiki/List_of_FIFA_World_Cup_finals
- 4. Locate the table ‘List of FIFA World Cup finals’
- 5. Extract only the first 10 rows (Ignore headers & extra columns)

Step 2 - Extract Table Data

- 1. Open Developer Tools (F12)
- 2. Right-click on table → Inspect
- 3. Copy XPath / DOM Path for table rows ()
- 4. Extract the following columns:
 - a) Year
 - b) Winner
 - c) Score
 - d) Runners-up
- 5. Validate extracted data before storing

Step 3:- Store extracted data in JSON Format

- 1. Convert extracted data into JSON format
- 2. Example JSON Structure as given:-
data = [{"Year": "2018", "Winner": "France", "Score": "4–2", "Runners-up": "Croatia"}, {"Year": "2014", "Winner": "Germany", "Score": "1–0", "Runners-up": "Argentina"}]
- 3. Validate Json structure using Python command:- `Json.dumps(data, indent=4)`

Step 4:- Prepare Google Sheets API Request

- 1. Go to Google Cloud Console
- 2. Create New Project
- 3. Enable Google Sheets API
- 4. Create API Key & OAuth Credentials
- 5. Get Spreadsheet ID from Google Sheets URL (url:https://docs.google.com/spreadsheets/d/SPREADSHEET_ID/edit)
- 6. Set Permissions (Share with API Service Account if needed)
- 7. API Request Body:-
{
 "range": "Sheet1!A1:D10",
 "majorDimension": "ROWS",
 "values": [[
 "Year", "Winner", "Score", "Runners-up",
 "2018", "France", "4–2", "Croatia",
 "2014", "Germany", "1–0", "Argentina"
]]]

Step 5:- Send API Request via Postman

- 1. Open Postman
- 2. Set request type: “POST”
- 3. API Endpoint:-
https://sheets.googleapis.com/v4/spreadsheets/{SPREADSHEET_ID}/values/{RANGE}:append?valueInputOption=RAW&key={YOUR_API_KEY}
- 4. Add Headers {"Content-Type": "application/json", "Authorization": "Bearer YOUR_ACCESS_TOKEN"}

Step 6:- Check API Response

- 1. If Success:- 200 OK → Move to end
- 2. If Error:-
 - a) 403 Forbidden → API key issue
 - b) 400 Bad request → JSON formatting issue
 - c) Retry after debugging

Step 7:- Task Completed

Data Successfully appended to Google Sheets.

Thanks and looking forward.