

Infnet

# Desenvolvimento de Data-Driven Apps com Python [24E4\_3]

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Rodrigo Moreira Avila

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[Repositório GIT](https://github.com/r-moreira/infnet-data-driven-apps-at)

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## Prints da aplicação fastAPI em execução:

### Rota: simples por id

The screenshot shows a REST client interface for a project named "data-driven-apps" at the "match" endpoint. A GET request is configured with the URL `http://localhost:8000/match?match_id=3895302&competition_id=9&season_id=281`. The "Query Params" section lists four parameters: `match_id` (3895302), `competition_id` (9), and `season_id` (281). The "Body" tab is active, displaying a JSON response in "Pretty" format. The response contains detailed match information, including dates, scores, and team names.

Params • Authorization Headers (7) Body Scripts Tests Settings

Query Params

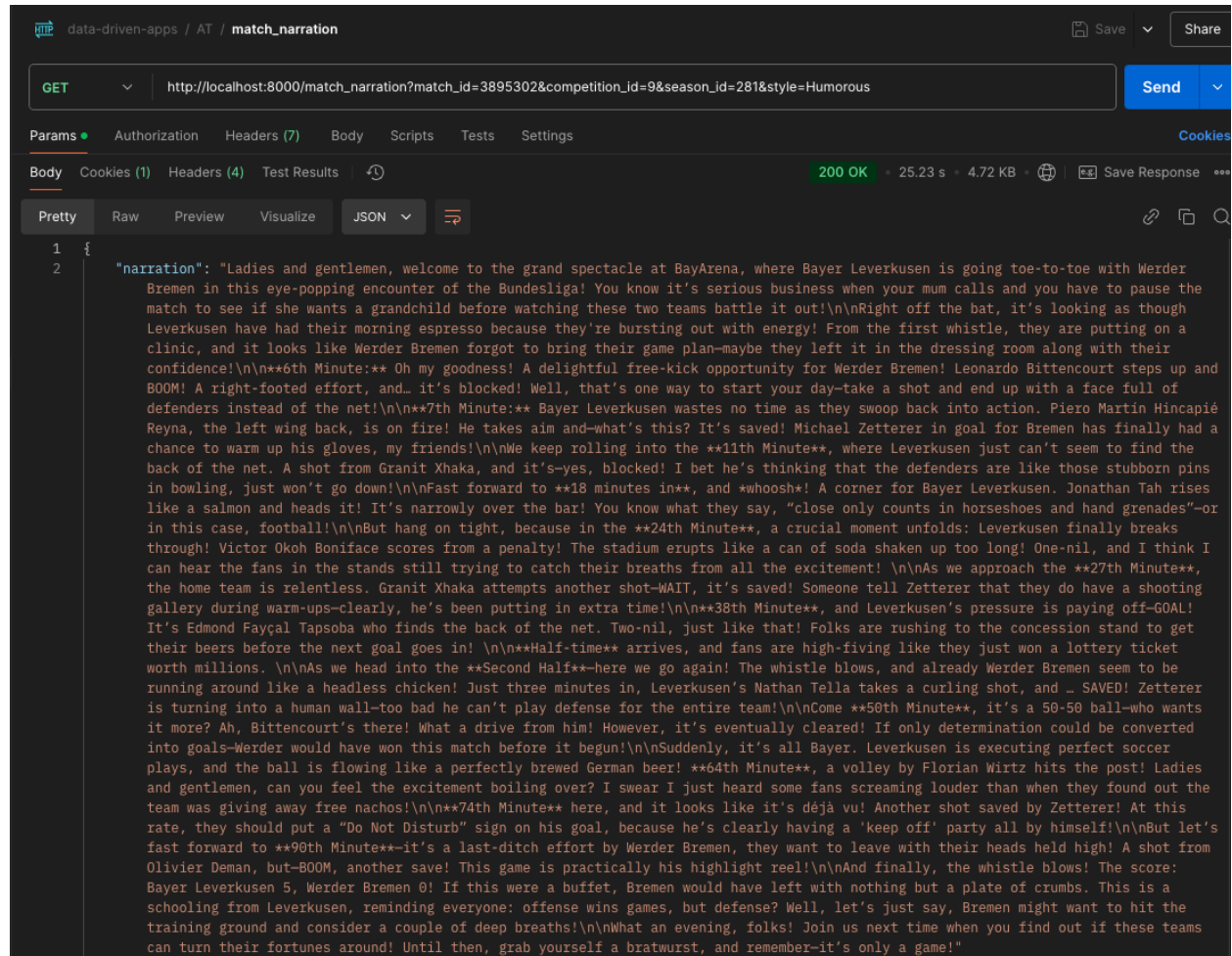
Key	Value
match_id	3895302
competition_id	9
season_id	281

Body Cookies (1) Headers (4) Test Results ↺

Pretty Raw Preview Visualize JSON ↕

```
1 {
2   "match_id": 3895302,
3   "match_date": "2024-04-14",
4   "kick_off": "17:30:00.000",
5   "competition": "Germany - 1. Bundesliga",
6   "season": "2023/2024",
7   "home_team": "Bayer Leverkusen",
8   "away_team": "Werder Bremen",
9   "home_score": 5,
10  "away_score": 0,
11  "match_status": "available",
12  "match_status_360": "available",
13  "last_updated": "2024-05-10T16:57:53.017895",
14  "last_updated_360": "2024-05-10T17:03:59.613154",
15  "match_week": 29,
16  "competition_stage": "Regular Season",
17  "stadium": "BayArena",
18  "referee": "Harm Osmers",
19  "home_managers": "Xabier Alonso Olano",
20  "away_managers": "Ole Werner",
21  "data_version": "1.1.0",
22  "shot_fidelity_version": "2",
23  "xy_fidelity_version": "2"
24 }
```

## Rota: Narração de partida



The screenshot shows a REST client interface with the following details:

- URL:** `http://localhost:8000/match_narration?match_id=3895302&competition_id=9&season_id=281&style=Humorous`
- Method:** GET
- Status:** 200 OK
- Response Body (JSON):**

```
1 {
2   "narration": "Ladies and gentlemen, welcome to the grand spectacle at BayArena, where Bayer Leverkusen is going toe-to-toe with Werder Bremen in this eye-popping encounter of the Bundesliga! You know it's serious business when your mum calls and you have to pause the match to see if she wants a grandchild before watching these two teams battle it out!\n\nRight off the bat, it's looking as though Leverkusen have had their morning espresso because they're bursting out with energy! From the first whistle, they are putting on a clinic, and it looks like Werder Bremen forgot to bring their game plan—maybe they left it in the dressing room along with their confidence!\n\n**6th Minute:** Oh my goodness! A delightful free-kick opportunity for Werder Bremen! Leonardo Bittencourt steps up and BOOM! A right-footed effort, and... it's blocked! Well, that's one way to start your day—take a shot and end up with a face full of defenders instead of the net!\n\n**7th Minute:** Bayer Leverkusen wastes no time as they swoop back into action. Piero Martin Hincapié Reyna, the left wing back, is on fire! He takes aim and—what's this? It's saved! Michael Zetterer in goal for Bremen has finally had a chance to warm up his gloves, my friends!\n\nWe keep rolling into the **11th Minute**, where Leverkusen just can't seem to find the back of the net. A shot from Granit Khaka, and it's—yes, blocked! I bet he's thinking that the defenders are like those stubborn pins in bowling, just won't go down!\n\nFast forward to **18 minutes in**, and *whoosh*! A corner for Bayer Leverkusen. Jonathan Tah rises like a salmon and heads it! It's narrowly over the bar! You know what they say, "close only counts in horseshoes and hand grenades"—or in this case, football!\n\nBut hang on tight, because in the **24th Minute**, a crucial moment unfolds: Leverkusen finally breaks through! Victor Okoh Boniface scores from a penalty! The stadium erupts like a can of soda shaken up too long! One-nil, and I think I can hear the fans in the stands still trying to catch their breaths from all the excitement! \n\nAs we approach the **27th Minute**, the home team is relentless. Granit Khaka attempts another shot—WAIT, it's saved! Someone tell Zetterer that they do have a shooting gallery during warm-ups—clearly, he's been putting in extra time!\n\n**38th Minute**, and Leverkusen's pressure is paying off—GOAL! It's Edmond Fayçal Tapsoba who finds the back of the net. Two-nil, just like that! Folks are rushing to the concession stand to get their beers before the next goal goes in! \n\n**Half-time** arrives, and fans are high-fiving like they just won a lottery ticket worth millions. \n\nAs we head into the **Second Half**—here we go again! The whistle blows, and already Werder Bremen seem to be running around like a headless chicken! Just three minutes in, Leverkusen's Nathan Tella takes a curling shot, and... SAVED! Zetterer is turning into a human wall—too bad he can't play defense for the entire team!\n\nCome **50th Minute**, it's a 50-50 ball—who wants it more? Ah, Bittencourt's there! What a drive from him! However, it's eventually cleared! If only determination could be converted into goals—Werder would have won this match before it begun!\n\nSuddenly, it's all Bayer. Leverkusen is executing perfect soccer plays, and the ball is flowing like a perfectly brewed German beer! **64th Minute**, a volley by Florian Wirtz hits the post! Ladies and gentlemen, can you feel the excitement boiling over? I swear I just heard some fans screaming louder than when they found out the team was giving away free nachos!\n\n**74th Minute** here, and it looks like it's déjà vu! Another shot saved by Zetterer! At this rate, they should put a "Do Not Disturb" sign on his goal, because he's clearly having a 'keep off' party all by himself!\n\nBut let's fast forward to **90th Minute**—it's a last-ditch effort by Werder Bremen, they want to leave with their heads held high! A shot from Olivier Deman, but—BOOM, another save! This game is practically his highlight reel!\n\nAnd finally, the whistle blows! The score: Bayer Leverkusen 5, Werder Bremen 0! If this were a buffet, Bremen would have left with nothing but a plate of crumbs. This is a schooling from Leverkusen, reminding everyone: offense wins games, but defense? Well, let's just say, Bremen might want to hit the training ground and consider a couple of deep breaths!\n\nWhat an evening, folks! Join us next time when you find out if these teams can turn their fortunes around! Until then, grab yourself a bratwurst, and remember—it's only a game!"
```

## Rota: Perfil de jogador

The screenshot shows a REST client interface with the following details:

- URL:** `http://localhost:8000/player_profile?match_id=3895302&player_name=Romano Schmid`
- Method:** GET
- Body:** The response is a JSON object with the following structure:

```
{
  "match_id": 3895302,
  "match_stats": {
    "total_passes": 52,
    "total_ball_receipts": 61,
    "total_carries": 49,
    "total_pressures": 27,
    "total_fouls_committed": 1,
    "total_fouls_won": 3,
    "total_dispossessed": 2,
    "total_duels": 5,
    "total_dribbled_past": 1,
    "total_dribbles": 3,
    "total_blocks": 3,
    "total_interceptions": 0,
    "total_ball_recoveries": 4,
    "total_miscontrols": 1,
    "total_shields": 0,
    "total_shots": 1,
    "total_goal_keeper": 0,
    "total_bad_behaviour": 0
  },
  "player_info": {
    "player_id": 8784,
    "player_name": "Romano Schmid",
    "player_nickname": null,
    "jersey_number": 20,
    "country": "Austria",
    "cards": [],
    "positions": [
      {
        "position_id": 15,
        "position": "Left Center Midfield",
        "from": "00:00",
        "to": "76:46",
        "from_period": 1,
        "to_period": 2
      }
    ]
  }
}
```

# Rota: Resumo da partida

data-driven-apps / AT / match\_summary

SaveShare

GET

http://localhost:8000/match\_summary?match\_id=3895302&competition\_id=9&season\_id=281

Send

Params

Authorization

Headers (7)

Body

Scripts

Tests

Settings

Query Params

<input checked="" type="checkbox"/> Key	Value	Description	Bulk Edit
<input checked="" type="checkbox"/> match_id	3895302		
<input checked="" type="checkbox"/> competition_id	9		
<input checked="" type="checkbox"/> season_id	281		

Body

Cookies (1)

Headers (4)

Test Results

200 OK

7.64 s

1.76 KB

Save Response

Pretty

Raw

Preview

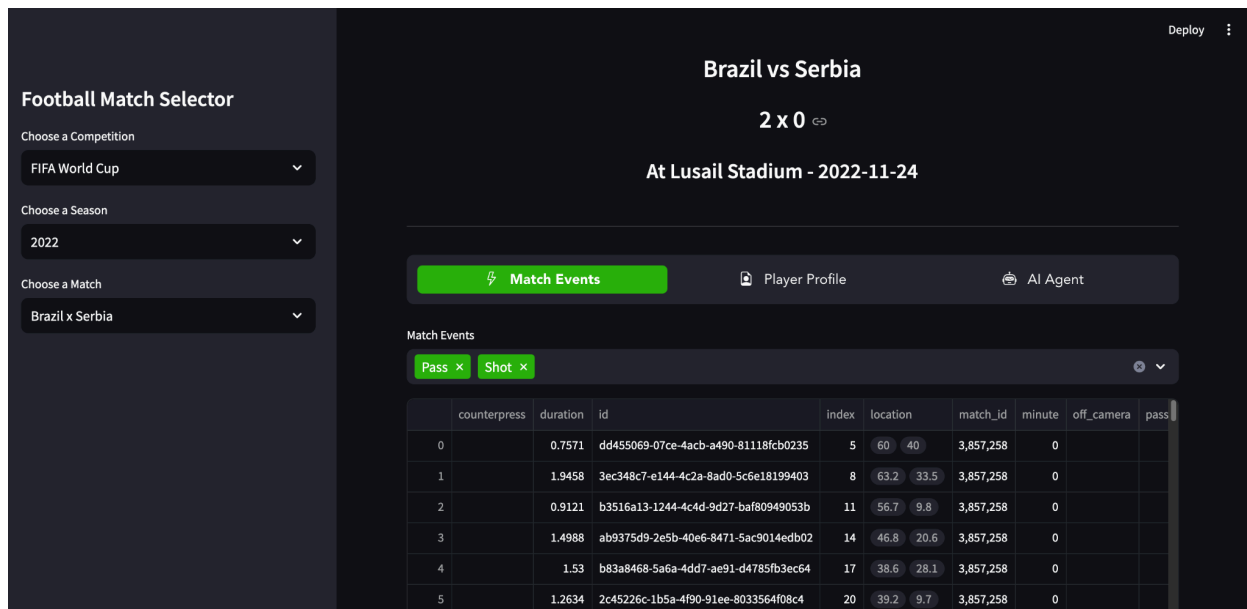
Visualize

JSON

```
1 {
2   "summary": "In a dominant performance, Bayer Leverkusen secured a comprehensive 5-0 victory over Werder Bremen at BayArena on April 14, 2024, during Matchday 29 of the Bundesliga. \n\nLeverkusen took control early in the match, with Florian Wirtz opening the scoring in the 24th minute through a penalty after a foul in the box. Just minutes later, Wirtz doubled the lead with a close-range finish in the 27th minute. By halftime, Leverkusen had established a commanding 3-0 lead thanks to a headed goal from Granit Xhaka in the 45th minute.\n\nThe second half saw Leverkusen continue their attacking onslaught, with Xhaka getting his second goal in the 62nd minute. Amine Adli capped off a stellar performance by finding the back of the net in the 75th minute, concluding the scoring at 5-0. \n\nLeverkusen dominated possession throughout the match and recorded a total of 20 shots, with 10 on target, while Bremen managed only 4 shots in total, only 1 of which was on target. The referee for the match, Harm Osmers, oversaw a match where Leverkusen's tactical prowess and offensive strength were on full display, leaving Werder Bremen struggling to respond.\n\n**Final Score:** \nBayer Leverkusen 5 - 0 Werder Bremen \n\n**Match Statistics:** \n- Possession: Bayer Leverkusen 65% - 35% Werder Bremen \n- Shots: Bayer Leverkusen 20 (10 on target) - 4 (1 on target) Werder Bremen \n- Corners: Bayer Leverkusen 7 - 3 Werder Bremen \n- Yellow Cards: Bayer Leverkusen 0 - 1 Werder Bremen \n- Red Cards: Bayer Leverkusen 0 - 0 Werder Bremen \n\nWith this result, Bayer Leverkusen strengthens their position in the Bundesliga standings, aiming for a UEFA Champions League spot."
3 }
```

## Prints da aplicação Streamlit em execução:

### Tab: Eventos da partida



The screenshot displays a web application interface for football match data. On the left, a sidebar titled 'Football Match Selector' contains three dropdown menus: 'Choose a Competition' (FIFA World Cup), 'Choose a Season' (2022), and 'Choose a Match' (Brazil x Serbia). The main content area is titled 'Brazil vs Serbia' and shows a score of '2 x 0' at 'At Lusail Stadium - 2022-11-24'. Below the title, there are three tabs: 'Match Events' (active), 'Player Profile', and 'AI Agent'. Under the 'Match Events' tab, there are two sub-tabs: 'Pass' and 'Shot'. A table of match events is displayed below, with columns: counterpress, duration, id, index, location, match\_id, minute, off\_camera, and pass. The table shows 6 rows of data, with the last row highlighted in blue.

	counterpress	duration	id	index	location	match_id	minute	off_camera	pass
0		0.7571	dd455069-07ce-4acb-a490-81118fcb0235	5	60 40	3,857,258	0		
1		1.9458	3ec348c7-e144-4c2a-8ad0-5c6e18199403	8	63.2 33.5	3,857,258	0		
2		0.9121	b3516a13-1244-4c4d-9d27-baf80949053b	11	56.7 9.8	3,857,258	0		
3		1.4988	ab9375d9-2e5b-40e6-8471-5ac9014edb02	14	46.8 20.6	3,857,258	0		
4		1.53	b83a8468-5a6a-4dd7-ae91-d4785fb3ec64	17	38.6 28.1	3,857,258	0		
5		1.2634	2c45226c-1b5a-4f90-91ee-8033564f08c4	20	39.2 9.7	3,857,258	0		

## Tab: Perfil de jogador

**Football Match Selector**

Choose a Competition

FIFA World Cup

Choose a Season

2022

Choose a Match

Brazil x Serbia

**Brazil vs Serbia**

2 x 0

At Lusail Stadium - 2022-11-24

⚡ Match Events

👤 **Player Profile**

🤖 AI Agent

Choose a Team

Brazil

Choose a Player

Danilo Luiz da Silva

**Danilo Luiz da Silva**

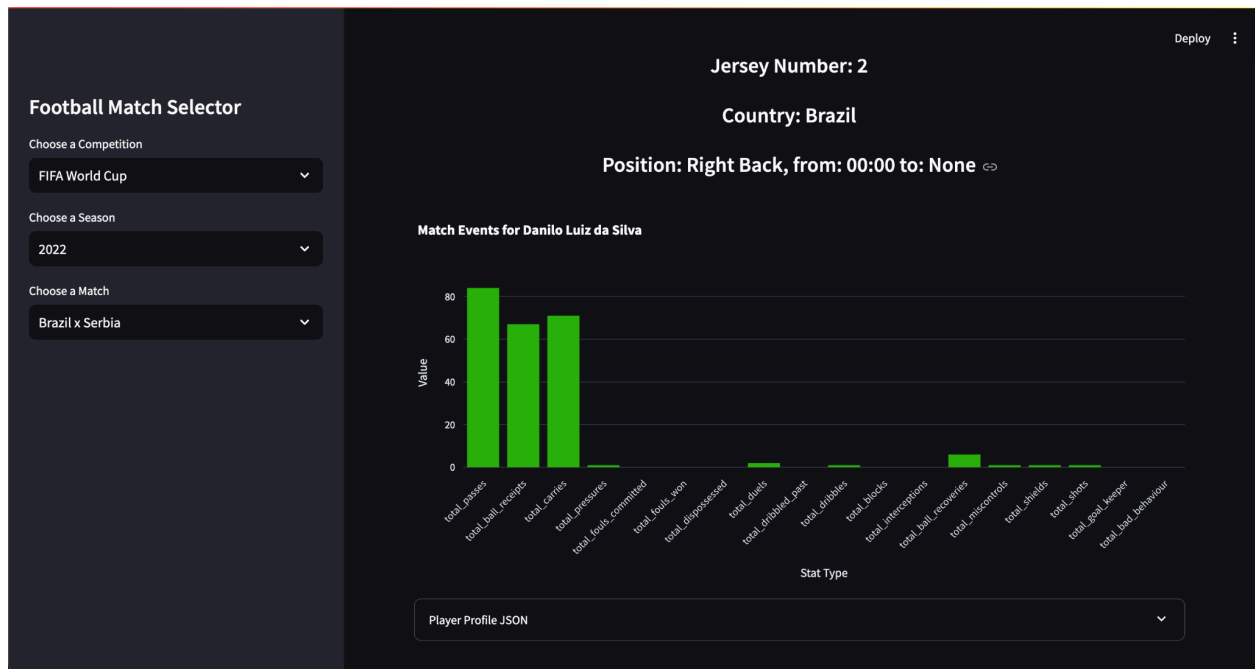
Jersey Number: 2

Country: Brazil

Position: Right Back, from: 00:00 to: None

Deploy

## Tab: Perfil de jogador 2



## Tab Agente IA: Narração de partida

Football Match Selector

Choose a Competition  
FIFA World Cup

Choose a Season  
2022

Choose a Match  
Brazil x Serbia

Brazil vs Serbia

2 x 0

At Lusail Stadium - 2022-11-24

Match Events Player Profile AI Agent

Clear Chat

Narrate the selected match

Brazil won 2-0 against Serbia in the FIFA World Cup 2022 Group Stage, with Richarlison scoring both goals.

Your message



# Tab Agente IA: Comparação de jogadores

Football Match Selector

Choose a Competition

FIFA World Cup

Choose a Season

2022

Choose a Match

Brazil x Serbia

Match Events

Player Profile

AI Agent

Clear Chat

Narrate the selected match

Brazil won 2-0 against Serbia in the FIFA World Cup 2022 Group Stage, with Richarlison scoring both goals.

Compare Richarlison and Neymar on this match

Richarlison had a more impactful performance with two goals, while Neymar was active in creating opportunities but did not score and was substituted due to injury.

Your message

## Tool: get\_match\_events (em execução)

```
/Users/rodrigo/Dev/infnet/4SEM/data_driven_apps/rodrigo_avila_DR3_AT/.venv/lib/python3.11/site-packages/statsbompy/api_client.py:21: NoAuthWarning: credentials were not supplied. open data access only
warnings.warn(
{'match_id': 3890561, 'match_stats': {'total_passes': 24, 'total_ball_receipts': 43, 'total_carries': 19, 'total_pressures': 23, 'total_fouls_committed': 1, 'total_fouls_won': 0, 'total_dispossessed': 1, 'total_duels': 3, 'total_dribbled_past': 0, 'total_dribbles': 0, 'total_blocks': 0, 'total_interceptions': 0, 'total_ball_recoveries': 3, 'total_miscontrols': 2, 'total_shields': 0, 'total_shots': 5, 'total_goal_keeper': 0, 'total_bad_behaviour': 0}, 'player_info': {'player_id': 8060, 'player_name': 'Klaas-Jan Huntelaar', 'player_nickname': None, 'jersey_number': 25, 'country': 'Netherlands', 'cards': [], 'positions': [{'position_id': 23, 'position': 'Center Forward', 'from_time': '00:00', 'to_time': None, 'from_period': 1, 'to_period': None, 'start_reason': 'Starting XI', 'end_reason': 'Final Whistle'}]}}, {'action': 'get_match_events'}
Action Input: ({"match_id": 3890561})2024-12-13 21:50:46,704 - service.statsbomb_service - INFO - Getting events for match_id 3890561, event_type_list ['Shot'], player_name None
/Users/rodrigo/Dev/infnet/4SEM/data_driven_apps/rodrigo_avila_DR3_AT/.venv/lib/python3.11/site-packages/statsbompy/api_client.py:21: NoAuthWarning: credentials were not supplied. open data access only
warnings.warn(
[{'duration': 0.597523, 'id': 'bad6e9d6-e828-4599-952c-39c1f7d22659', 'index': 263, 'location': [188.1, 31.2], 'match_id': 3890561, 'minute': 4, 'period': 1, 'play_pattern': 'Regular Play', 'player': 'Tarik Elyounoussi', 'player_id': 26832.0, 'position': 'Left Wing Back', 'possession': 7, 'possession_team': 'Hoffenheim', 'possession_team_id': 175, 'related_events': [{'510415d8-785b-4476-a852-d8dab88514ec'}], 'second': 21, 'shot_body_part': 'Left Foot', 'shot_end_location': [120.0, 35.2, 1.0], 'shot_first_time': True, 'shot_freeze_frame': [{'location': [115.7, 50.0], 'player': {'id': 3510, 'name': 'Sead Kolašinac', 'position': {'id': 6, 'name': 'Left Back', 'teammate': False}, 'location': [113.2, 39.3], 'player': {'id': 3502, 'name': 'Joël Andre Job Matip', 'position': {'id': 3, 'name': 'Right Center Back', 'teammate': False}, 'location': [119.0, 42.5], 'player': {'id': 16534, 'name': 'Roman Neustädter', 'position': {'id': 5, 'name': 'Left Center Back', 'teammate': False}, 'location': [111.6, 34.8], 'player': {'id': 7016, 'name': 'Benedikt Höwedes', 'position': {'id': 2, 'name': 'Right Back', 'teammate': False}, 'location': [96.7, 36.3], 'player': {'id': 6039, 'name': 'Sebastian Rudy', 'position': {'id': 11, 'name': 'Left Defensive Midfield', 'teammate': True}, 'location': [104.0, 43.8], 'player': {'id': 8556, 'name': 'Pirmin Schwegler', 'position': {'id': 9, 'name': 'Right Defensive Midfield', 'teammate': True}, 'location': [109.2, 37.7], 'player': {'id': 5460, 'name': 'Andrej Kramarić', 'position': {'id': 23, 'name': 'Center Forward', 'teammate': True}, 'location': [111.6, 41.9], 'player': {'id': 8387, 'name': 'Mark Uth', 'position': {'id': 18, 'name': 'Right Attacking Midfield', 'teammate': True}, 'location': [119.0, 38.7], 'player': {'id': 8517, 'name': 'Ralf Fährmann', 'position': {'id': 1, 'name': 'Goalkeeper', 'teammate': False}, 'location': [93.8, 39.7], 'player': {'id': 8508, 'name': 'Max Meyer', 'position': {'id': 13, 'name': 'Right Center Midfield', 'teammate': False}, 'location': [89.8, 27.4], 'player': {'id': 3053, 'name': 'Leroy Sané', 'position': {'id': 12, 'name': 'Right Midfield', 'teammate': False}, 'location': [103.5, 50.4], 'player': {'id': 5242, 'name': 'Younès Belhanda', 'position':
```

## Tool: get\_player\_info (em execução)

```
> Entering new AgentExecutor chain...
Action: get_player_info
Action Input: {"match_id": 3890561, "player_name": "Andrej Kramarić"}2024-12-13 21:50:41,512 - service.statsbomb_service - INFO - Getting player profile for player_name Andrej Kramarić
2024-12-13 21:50:41,512 - service.statsbomb_service - INFO - Getting events for match_id 3890561, event_type_list None, player_name Andrej Kramarić
/Users/rodrigo/Dev/infnet/4SEM/data_driven_apps/rodrigo_avila_DR3_AT/.venv/lib/python3.11/site-packages/statsbombpy/api_client.py:21: NoAuthWarning: credentials were not supplied. open data access only
  warnings.warn(
2024-12-13 21:50:41,774 - service.statsbomb_service - INFO - Getting lineups for match_id 3890561, team Hoffenheim
/Users/rodrigo/Dev/infnet/4SEM/data_driven_apps/rodrigo_avila_DR3_AT/.venv/lib/python3.11/site-packages/statsbombpy/api_client.py:21: NoAuthWarning: credentials were not supplied. open data access only
  warnings.warn(
{'match_id': 3890561, 'match_stats': {'total_passes': 36, 'total_ball_receipts': 50, 'total_carries': 36, 'total_pressures': 14, 'total_fouls_committed': 1, 'total_fouls_won': 2, 'total_dispossessed': 0, 'total_duels': 2, 'total_dribbled_past': 0, 'total_dribbles': 1, 'total_blocks': 0, 'total_interceptions': 0, 'total_ball_recoveries': 2, 'total_miscontrols': 1, 'total_shields': 0, 'total_shots': 3, 'total_goal_keeper': 0, 'total_bad_behaviour': 0}, 'player_info': {'player_id': 5460, 'player_name': 'Andrej Kramarić', 'player_nickname': None, 'jersey_number': 27, 'country': 'Croatia', 'cards': [], 'positions': [{'position_id': 23, 'position': 'Center Forward', 'from_time': '90:00', 'to_time': '59:45', 'from_period': 1, 'to_period': 2, 'start_reason': 'Starting XI', 'end_reason': 'Tactical Shift'}, {'position_id': 24, 'position': 'Left Center Forward', 'from_time': '59:45', 'to_time': None, 'from_period': 2, 'to_period': None, 'start_reason': 'Tactical Shift', 'end_reason': 'Final Whistle'}]})Action: get_player_info
Action Input: {"match_id": 3890561, "player_name": "Klaas-Jan Huntelaar"}2024-12-13 21:50:44,144 - service.statsbomb_service - INFO - Getting player profile for player_name Klaas-Jan Huntelaar
2024-12-13 21:50:44,144 - service.statsbomb_service - INFO - Getting events for match_id 3890561, event_type_list None, player_name Klaas-Jan Huntelaar
/Users/rodrigo/Dev/infnet/4SEM/data_driven_apps/rodrigo_avila_DR3_AT/.venv/lib/python3.11/site-packages/statsbombpy/api_client.py:21: NoAuthWarning: credentials were not supplied. open data access only
```