

Package ‘ISAR’

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Type Package

Title Introduction to Sports Analytics using R (ISAR) Data

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Description We provide data sets used in the forthcoming textbook “Introduction to Sports Analytics using R” by Elmore and Urbaczweski (2024). The package currently contains sixteen datasets and should be published in early 2024.

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Encoding UTF-8

LazyData true

Depends R (>= 2.10)

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BugReports <https://github.com/rtelmore/ISAR/issues>

NeedsCompilation no

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avs_roster_2021	<i>2021 NHL Colorado Avalanche Roster (from NHL's API)</i>
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Description

A dataset containing the NHL's Avalanche Roster

Usage

```
avs_roster_2021
```

Format

A data frame with 28 rows and 8 variables:

jersey_number player jersey number
person_id player ID
person_full_name player full name
person_link API link to player data
position_code position abbreviation
position_name position name
position_type position type
position_abbreviation another position abbreviation

Source

<https://www.nhl.com/stats/>

`avs_stats_2021`*NHL's Colorado Avalanche Player Statistics*

Description

A dataset containing the statistics for all Colorado Avalanche players on the 2021-2 roster

Usage`avs_stats_2021`**Format**

A data frame with 196 rows and 50 variables:

person_id NHL API Player ID
person_full_name Player full name
season Season
season_start Season start
stat_assists Assists
stat_goals Goals
stat_pim Penalty minutes
stat_games Games played
stat_penalty_minutes Penalty minutes
stat_plus_minus Plus-minus value
stat_points Points
stat_power_play_goals Power play goals
stat_game_winning_goals Game winning goals
stat_short_handed_goals Short handed goals
stat_shots Shots
stat_shot_pct Shot percentage
stat_time_on_ice Time on ice
stat_hits Hits
stat_power_play_points Power play points
stat_power_play_time_on_ice Power play time on ice
stat_even_time_on_ice Even play time on ice
stat_face_off_pct Face off percentage
stat_over_time_goals Overtime goals
stat_short_handed_points Short handed points
stat_short_handed_time_on_ice Short handed time on ice

stat_blocked Blocks
stat_shifts Shifts
stat_save_percentage Save percentage
stat_goal_against_average Goals against average
stat_ot OT
stat_shutouts Shutouts
stat_ties Ties
stat_wins Wins
stat_losses Losses
stat_saves Saves
stat_power_play_saves Power play saves
stat_short_handed_saves Short handed saves
stat_even_saves Even play saves
stat_short_handed_shots Short handed shots
stat_even_shots Even play shots
stat_power_play_shots Power play shots
stat_games_started Games started
stat_shots_against Shots against
stat_goals_against Goals against
stat_power_play_save_percentage Power play save percentage
stat_short_handed_save_percentage Short handed save percentage
stat_even_strength_save_percentage Even strength save percentage
team_name Team name
team_link Team link
team_id Team ID

Source

<https://www.nhl.com/stats/>

`dk_lac_dal`*Draftkings Showdown Game (Clippers vs. Mavericks)*

Description

A dataset containing the Draftkings salary information for Game 3 of the 2021 NBA Playoffs between the Los Angeles Clippers and the Dallas Mavericks.

Usage`dk_lac_dal`**Format**

A data frame with 68 rows and 9 variables:

position real-life roster position of the player

name_id player name and Draftkings ID

name player name

id Draftkings player ID

roster_position Draftkings roster position

salary player salary

game_info game information for the players

team_abbrev player team as an abbreviation

avg_points_per_game player average Draftkings points per game

Source

Draftkings Contest Page

`dk_mem_utah`*Draftkings Showdown Game (Grizzlies vs. Jazz)*

Description

A dataset containing the Draftkings salary information for Game 4 of the 2021 NBA Playoffs between the Memphis Grizzlies and Utah Jazz.

Usage`dk_mem_utah`

Format

A data frame with 68 rows and 9 variables:

position real-life roster position of the player

name_id player name and Draftkings ID

name player name

id Draftkings player ID

roster_position Draftkings roster position

salary player salary

game_info game information for the players

team_abbrev player team as an abbreviation

avg_points_per_game player average Draftkings points per game

Source

Draftkings Contest Page

epl_gk_stats_2022

2021-2022 English Premier League Goalkeeper Statistics

Description

A dataset containing individual goalkeeper statistics for the English Premier League's 2021 - 2022 season

Usage

epl_gk_stats_2022

Format

A data frame with 314 rows and 13 variables:

player Player name

nation Player home country

pos Player position

squad Player team

age Age of player

born Birth year of player

min_p90 Total minutes played in the season per ninety minutes

goals Goals scored against player

pk_allowed Penalty kick goals scored against player

free_kick_goals Free kick goals scored against player
corner_kick_goals Corner kick goals scored against player
own_goals_against Own goals scored against player
post_shot_xG Post-shot expected goals
post_shot_xG_per_shot_on_target Post-shot expected goals per shot on target
post_shot_xG_minus_goals Post-shot expected goals minus goals per shot on target
post_shot_xG_minus_goals_p90 Post-shot expected goals minus goals per shot on target per ninety minutes
launch_completed Passes longer than 40 yards (launch) completed
launch_attempt Passes longer than 40 yards attempted
launch_completion_percent Passes longer than 40 yards (launch) completion percentage
pass_attempt Passes attempted
throw_attempt Throws attempted
pass_launch_percent Percentage of passes launched
avg_pass_len Average pass length
goal_kick_attempt Goal kick attempts
gk_launch_percent Percentage of goal kicks launched
avg_gk_len Average goal kick length
crosses_faced Number of crosses faced
crosses_stopped Number of crosses stopped
stop_percent Cross stop percentage
def_actions_out_pen_area Defensive actions outside the penalty area
def_actions_out_pen_area_p90 Defensive actions outside the penalty area per ninety minutes
avg_dist_def_actions Average distance from goal of defensive actions

Source

<https://fbref.com/en/comps/9/2021-2022/keepersadv/2021-2022-Premier-League-Stats>

epl_player_stats_2022 *2021-2022 English Premier League Player Statistics*

Description

A dataset containing individual player statistics for the English Premier League's 2021 - 2022 season

Usage

epl_player_stats_2022

Format

A data frame with 314 rows and 13 variables:

player Player name
nation Player home country
pos Player position
squad Player team
age Age of player
born Birth year of player
mp Matches played
starts Number of matches in which player started the game
min Total minutes played in the season
min_p90 Total minutes played in the season per ninety minutes
goals Goals scored by player
assists Assists by player
goals_assists Goals scored plus assists by player
non_pen_goals Non-penalty goals scored by player
pen_goals Penalty kick goals scored by player
pen_att Penalty kick attempts by player
yellow_cards Yellow cards earned by player
red_cards Red cards earned by player
xG Expected goals
non_pen_xG Non-penalty kick expected goals
xA Expected assists
non_pen_xGxA Non-penalty kick expected goals and assists
prg_carry Progressive carries
prg_pass Progressive passes
prg_reception Progressive passes received
goals_p90 Goals per ninety minutes
assists_p90 Assists per ninety minutes
goals_assists_p90 Goals and assists per ninety minutes
non_pen_goals_p90 Non-penalty kick goals per ninety minutes
non_pen_goals_assists_p90 Non-penalty kick goals and assists per ninety minutes
xG_p90 Expected goals per ninety minutes
xA_p90 Expected assists per ninety minutes
xG_xA_p90 Expected goals plus assists per ninety minutes
non_pen_xG_p90 Expected goals minus penalty goals per ninety minutes
non_pen_xG_xA_p90 Expected goals plus assists minus penalty goals per ninety minutes

Source

<https://fbref.com/en/comps/9/2021-2022/stats/2021-2022-Premier-League-Stats>

epl_team_stats

2017-18 through 2021-22 English Premier League Team Statistics

Description

A dataset containing team statistics for the English Premier League

Usage

epl_team_stats

Format

A data frame with 100 rows and 29 variables:

squad Team or club name

season Season

num_players Number of players used in the season

age Age of players weighted by minutes played

poss Possession as a percentage of passes attempted

goals Goals scored by team

assists Assists by team

goals_assists Goals scored plus assists by team

non_pen_goals Non-penalty goals scored by team

pen_goals Penalty kick goals scored by team

pen_att Penalty kick attempts by team

yellow_cards Yellow cards earned by team

red_cards Red cards earned by team

xG Expected goals

non_pen_xG Non-penalty kick expected goals

xA Expected assists

non_pen_xGxA Non-penalty kick expected goals and assists

prg_carry Progressive carries

prg_pass Progressive passes

goals_p90 Goals per ninety minutes

assists_p90 Assists per ninety minutes

goals_assists_p90 Goals and assists per ninety minutes

non_pen_goals_p90 Non-penalty kick goals per ninety minutes

non_pen_goals_assists_p90 Non-penalty kick goals and assists per ninety minutes

xG_p90 Expected goals per ninety minutes

xA_p90 Expected assists per ninety minutes

xG_xA_p90 Expected goals plus assists per ninety minutes

non_pen_xG_p90 Expected goals minus penalty goals per ninety minutes

non_pen_xG_xA_p90 Expected goals plus assists minus penalty goals per ninety minutes

Source

<https://fbref.com/en/comps/9/2021-2022/stats/2021-2022-Premier-League-Stats>

masters

2019 Masters Tournament Scores

Description

A dataset containing the scores from the 2019 Masters Golf Tournament.

Usage

masters

Format

A data frame with 87 rows and 9 variables:

pos finishing position for a player

player_name name of the golfer

nationality nationality of the golfer

score final score relative to par

round_1 number of strokes from the first round

round_2 number of strokes from the second round

round_3 number of strokes from the third round

round_4 number of strokes from the fourth round

total total strokes from all rounds

Source

<https://www.sportingnews.com/us/golf/news/masters-leaderboard-2019-live-scores-results-sunday/n1j77sci339r1f60hm3e1ei17>

nba_adv_team_2021 *2021 NBA Advanced Statistics (Team) for the 2020-21 Season*

Description

A dataset containing the NBA Four Factor table on nba.com

Usage

nba_adv_team_2021

Format

A data frame with 2160 rows and 29 variables:

idGame Game ID on nba.com
slugTeam Team abbreviation
idTeam Team ID on nba.com
pctAST Assist percentage
pctOREB Offensive rebound percentage
pctDREB Defensive rebound percentage
pctTREB Total rebound percentage
pctTOVE Turnover percentage (one)
pctTOVTeam Turnover percentage (two)
pctEFG Effective field goal percentage
pctTS True Shooting percentage
pctUSG Usage metric
pctUSGE Usage percentage
teamName Team Mascot
cityTeam City of slugTeam
minExact Total minutes played
ortgE offensive rating (effective ?)
ortg offensive rating
drtgE defensive rating (effective ?)
drtg defensive rating
netrtgE net rating (effective ?)
netrtg net rating
ratioASTtoTOV Assists to turnover ratio
ratioAST Assist ratio
paceE pace (effective ?)

pace pace
pacePer40PACE_PER40 pace per forty minutes
possessions team possessions in game
ratioPIE Player impact estimate

Source

http://asbcllc.com/nbastatR/reference/box_scores.html

nba_adv_team_2023 *NBA Advanced Statistics (Team) for the 2022-23 Season*

Description

A dataset containing the NBA Four Factor table on nba.com

Usage

nba_adv_team_2023

Format

A data frame with 2460 rows and 29 variables:

game_id Game ID on nba.com
team_id Team ID on nba.com
team_name Team name
team_abbreviation Team abbreviation
team_city Team city
min Total minutes in the game
e_off_rating offensive rating (effective ?)
off_rating offensive rating
e_def_rating defensive rating (effective ?)
def_rating defensive rating
e_net_rating net rating (effective ?)
net_rating net rating
ast_pct Assist percentage
ast_tov Assists to turnover ratio
ast_ratio Assist ratio
oreb_pct Offensive rebound percentage
dreb_pct Defensive rebound percentage
reb_pct Total rebound percentage

e_tm_tov_pct Turnover percentage (effective?)
tm_tov_pct Turnover percentage
efg_pct Effective field goal percentage
ts_pct True Shooting percentage
usg_pct Usage percentage
e_usg_pct Usage percentage (effective?)
e_pace pace (effective ?)
pace pace
pace_per40 pace per forty minutes
poss team possessions in game
pie Player impact estimate

Source

http://asbcllc.com/nbastatR/reference/box_scores.html

nba_ff_team_2021	<i>2021 NBA Four Factors (Team) for the 2020-21 Season</i>
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Description

A dataset containing the NBA Four Factor table on nba.com

Usage

nba_ff_team_2021

Format

A data frame with 2160 rows and 11 variables:

idGame Game ID on nba.com
slugTeam Team abbreviation
idTeam Team ID on nba.com
pctEFGOpponent Effective field goal percentage of opponent
pctTOVOpponent Turnover percentage of opponent
pctOREBOpponent Offensive rebound percentage of opponent
teamName Team Mascot
cityTeam City of slugTeam
minExact Total minutes played
rateFTA Free throw rate of slugTeam
rateFTAOpponent Free throw rate of opponent

Source

http://asbcllc.com/nbastatR/reference/box_scores.html

nba_ff_team_2023 *NBA Four Factors (Team) for the 2020-21 Season*

Description

A dataset containing the NBA Four Factor table on nba.com

Usage

nba_ff_team_2023

Format

A data frame with 2460 rows and 14 variables:

game_id Game ID on nba.com

team_id Team ID on nba.com

team_name Team name on nba.com

team_abbreviation Team abbreviation on nba.com

team_city Team city

min Minutes in the game

efg_pct Effective field goal percentage

fta_rate Free throw rate of team

tm_tov_pct Turnover percentage of opponent

oreb_pct Offensive rebound percentage of opponent

opp_efg_pct Effective field goal percentage of opponent

opp_fta_rate Free throw rate of opponent

opp_tov_pct Turnover percentage of opponent

opp_oreb_pct Offensive rebound percentage of opponent

Source

http://asbcllc.com/nbastatR/reference/box_scores.html

nba_games_2021

2021 NBA Game Logs for the 2020-21 Season

Description

A dataset containing the NBA Games table on nba.com

Usage

```
nba_games_2021
```

Format

A data frame with 1832 rows and 47 variables:

yearSeason Season in which the game was played (YYYY)
slugSeason Season in which the game was played (YYYY-YY)
slugLeague Always given as NBA
typeSeason Regular season data
dateGame Date in YYYY-MM-DD
idGame Game ID on nba.com
numberGameTeamSeason slugTeam game number in the season
nameTeam Full team name
idTeam Team ID on nba.com
isB2B Logical for back-to-back game
isB2BFirst Logical for first game of back-to-back game
isB2BSecond Logical for second game of back-to-back game
locationGame Home (H) or Away (A)
slugMatchup Team One vs. Team Two
slugTeam Team abbreviation
countDaysRestTeam Days between previous game and this game
countDaysNextGameTeam Days until next game
slugOpponent Opponent abbreviation
slugTeamWinner Team that won (abbreviation)
slugTeamLoser Team that lost (abbreviation)
outcomeGame Result for slugTeam (W or L)
isWin Logical for slugTeam winning
fgmTeam slugTeam field goals made
fgaTeam slugTeam field goal attempts
pctFGTeam slugTeam field goal percentage

fg3mTeam slugTeam three point field goals made
fg3aTeam slugTeam three point field goal attempts
pctFG3Team slugTeam three point field goal percentage
pctFTTeam slugTeam free throw percentage
hasVideo Logical if game video exists
fg2mTeam slugTeam two point field goals made
fg2aTeam slugTeam two point field goal attempts
pctFG2Team slugTeam two point field goal percentage
minutesTeam Total minutes played
ftmTeam slugTeam free throws made
ftaTeam slugTeam free throw attempts
orebTeam slugTeam offensive rebounds
drebTeam slugTeam defensive rebounds
trebTeam slugTeam total rebounds
astTeam slugTeam total assists
stlTeam slugTeam total steals
blkTeam slugTeam total blocks
tovTeam slugTeam total turnovers
pfTeam slugTeam total personal fouls
ptsTeam slugTeam total points scored
plusminusTeam Margin of game as slugTeam score minus slugOpponent score
urlTeamSeasonLogo url of slugTeam logo

Source

http://asbcllc.com/nbastatR/reference/game_logs.html

nba_games_2023

NBA Game Logs for the 2022-23 Season

Description

A dataset containing the NBA Games table on nba.com

Usage

nba_games_2023

Format

A data frame with 2460 rows and 29 variables:

season_id Season in which the game was played (YYYY)
team_id Team ID on nba.com
team_abbreviation Team abbreviation on nba.com
team_name Team name on nba.com
game_id Game ID on nba.com
game_date Date in YYYY-MM-DD
matchup Team One vs. Team Two
wl Win or Loss
min Minutes in the game
fgm Team Field goals made
fga Team Field goal attempts
fg_pct Team field goal percentage
fg3m Team three point field goals made
fg3a Team three point field goal attempts
fg3_pct Team three point field goal percentage
ftm Team free throws made
fta Team free throw attempts
ft_pct Team free throw percentage
oreb Team offensive rebounds
dreb Team defensive rebounds
reb Team total rebounds
ast Team total assists
stl Team total steals
blk Team total blocks
tov Team total turnovers
pf Team total personal fouls
pts Team total points scored
plus_minus Margin of game as Team score minus Opponent score
video_available Logical if game video exists

Source

http://asbcllc.com/nbastatR/reference/game_logs.html

nba_nuggets_shots *2014/5 - 2022/23 Shot Data for the NBA's Denver Nuggets*

Description

A dataset containing seven seasons of Denver Nuggets shot data from NBA.com

Usage

nba_nuggets_shots

Format

A data frame with 62196 rows and 27 variables:

yearSeason Season in which the game was played (YYYY)
slugSeason Season in which the game was played (YYYY-YY)
idTeam Team ID on nba.com
idPlayer Player ID on nba.com
typeGrid A string showing grid type
namePlayer Player name
nameTeam Full team name
typeEvent Made or Missed Shot
typeAction Type of shot, e.g. Jump Shot
typeShot Two or three point shot
dateGame Date in YYYY-MM-DD
slugTeamHome Home Team abbreviation
slugTeamAway Away Team abbreviation
idGame Game ID on nba.com
idEvent Event ID within the game on nba.com
numberPeriod Period in game in which the shot was taken
minutesRemaining Minutes remaining in the period in which the shot was taken
zoneBasic Description of area on court where shot was taken
nameZone Name of the zone
slugZone Abbreviation of shot zone
zoneRange Distance of shot in categories
locationX X coordinate where shot was taken
locationY Y coordinate where shot was taken
secondsRemaining Seconds remainin when shot was taken
distanceShot Distance of the shot in feet
isShotAttempted Logical for shot taken
isShotMade Logical for make/miss of shot

Source

http://asbcllc.com/nbastatR/reference/teams_shots.html

nhl_team_stats_2021 *2021-2 NHL Team Statistics*

Description

A dataset containing the NHL Statistics

Usage

```
nhl_team_stats_2021
```

Format

A data frame with 32 rows and 35 variables:

stat_games_played Games played
stat_wins Wins
stat_losses Losses
stat_ot Overtimes
stat_pts Points
stat_pt_pctg Point Percentage
stat_goals_per_game Goals per game
stat_goals_against_per_game Goals against per game
stat_ev_gga_ratio Even strength gga ratio
stat_power_play_percentage Power play percentage
stat_power_play_goals Power play goals
stat_power_play_goals_against Power play goals against
stat_power_play_opportunities Power play opportunities
stat_penalty_kill_percentage Penalty kill percentage
stat_shots_per_game Shots per game
stat_shots_allowed Shots allowed
stat_win_score_first Wins when scoring first
stat_win_opp_score_first Wins when opponent scores first
stat_win_lead_first_per Wins when leading after first period
stat_win_lead_second_per Wins when leading after second period
stat_win_outshoot_opp Wins when outshooting opponent
stat_win_outshot_by_opp Wins when outshot by opponent

stat_face_offs_taken Face-offs taken
stat_face_offs_won Face-offs won
stat_face_offs_lost Face-offs lost
stat_face_off_win_percentage Face-off win percentage
stat_shooting_pctg Shooting percentage
stat_save_pctg Save percentage
stat_penalty_kill_opportunities Penalty kill opportunities
stat_save_pct_rank Save percentage rank
stat_shooting_pct_rank Shooting percentage rank
team_id Team ID
team_name Team name
team_link Team link
season Season

Source

<https://www.nhl.com/stats/>

nws1_player_stats *2022 NWSL Player Statistics*

Description

A dataset containing individual player statistics for the National Women's Soccer League

Usage

nws1_player_stats

Format

A data frame with 314 rows and 13 variables:

player Player name
nation Player home country
pos Player position
squad Player team
age Age of player
mp Matches played
starts Number of matches in which player started the game
min Total minutes played in the season
xGp90 Expected goals per ninety minutes

xAp90 Expected assists per ninety minutes

xGxAp90 Expected goals plus assists per ninety minutes

npxAp90 Expected goals minus penalty goals per ninety minutes

npxAp90 Expected goals plus assists minus penalty goals per ninety minutes

Source

<https://fbref.com/en/comps/182/stats/NWSL-Stats>

ow_golf_rankings	<i>2022 Official World Golf Rankings</i>
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Description

A dataset containing the Official World Golf Rankings in June 2022

Usage

ow_golf_rankings

Format

A data frame with 300 rows and 2 variables:

WGR_June_2022 official golf world ranking

Player_initial_last initial of first name and complete last name of player

Source

<https://www.owgr.com/archive/archive.sps?iType=1747>

pga_tournaments	<i>PGA Tournament Data</i>
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Description

A dataset containing PGA Tournament Data from 2022 season

Usage

pga_tournaments

Format

A data frame with 3676 rows and 34 variables:

Player_initial_last initial of first name and complete last name of player

tournament.id tournament ID

player.id player ID

hole_par par across all holes played by the player

strokes strokes taken on all holes played by the player

hole_DKP Draftkings points on holes

hole_FDP Fanduel points on the holes

hole_SDP Showdown points on the holes

streak_DKP Draftkings points on streaks

streak_FDP Fanduel points on streaks

streak_SDP Showdown points on streaks

n_rounds number of rounds played

made_cut player made the cut or not

pos finishing position of player

finish_DKP Draftkings points on the finishing position

finish_FDP Fanduel points on the finishing position

finish_SDP Showdown points on the finishing position

total_DKP total Draftkings points for the tournament

total_FDP total Fanduel points for the tournament

total_SDP total Showdown points for the tournament

player player full name

tournament.name tournament full name

course course name

date data of tournament

purse total prize money (in millions)

season year of season

no_cut Not sure

Finish finishing position

sg_putt strokes gained from putting

sg_arg strokes gained around the green

sg_app strokes gained on approach shots

sg_ott strokes gained off the tee

sg_t2g strokes gained tee to green

sg_total total strokes gained

Source

Courtesy of Matt Courchene of Datagolf.com

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