Package 'ProSportsDraftData'

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Type Package

Title Professional Sports Draft Data

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Description We provide comprehensive draft data for major professional sports leagues, including the National Football League (NFL), National Basketball Association (NBA), and National Hockey League (NHL). It offers access to both historical and current draft data, allowing for detailed analysis and research on player biases and player performance. The package is useful for sports fans and researchers interested in identifying biases and trends within scouting reports. Created by web scraping data from leading websites that cover professional sports player scouting reports, the package allows users to filter and summarize data for analytical purposes. For further details on the methods used, please refer to Wickham (2022) ``rvest: Easily Harvest (Scrape) Web Pages'' <https://CRAN.R-project.org/package=rvest> and Harrison (2023) ``RSelenium: R Bindings for Selenium WebDriver'' <https://CRAN.R-project.org/package=RSelenium>.

Encoding UTF-8

LazyData true

RoxygenNote 7.3.2

URL https://github.com/Ginsburg1/ProSportsDraftData

BugReports https://github.com/Ginsburg1/ProSportsDraftData/issues

Imports dplyr, stats

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VignetteBuilder knitr

License GPL-3

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Repository CRAN

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Contents

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nba_data   *NBA Draft Data*

Description

A dataset of all first-round picks in the NBA, including various draft metrics.

Usage

```
nba_data
```

Format

A `tibble` with the following columns:

source The source of the data.

name The name of the player.

year The year of the draft.

rank The rank of the player in the draft.

round The round in which the player was drafted.

height The height of the player.

weight The weight of the player.

school The school the player attended.

college_abbreviation The abbreviation of the college the player attended.

pros The pros of the player's abilities.

cons The cons of the player's abilities.

verdict The overall verdict on the player's potential.

pre_draft_analysis Analysis of the player before the draft.

post_draft_analysis Analysis of the player after the draft.

ranking The player's ranking.

player_score The score given to the player.

position The position the player plays.

grade The grade given to the player.

pts_total Total points scored by the player.

pts_per40 Points per 40 minutes played.

reb_total Total rebounds by the player.

reb_per40 Rebounds per 40 minutes played.

ast_total Total assists by the player.

ast_per40 Assists per 40 minutes played.

efg Effective field goal percentage.

fga Field goal attempts.

stl_total Total steals by the player.

stl_per40 Steals per 40 minutes played.

blk_total Total blocks by the player.

blk_per40 Blocks per 40 minutes played.

tpt Three-point shots made.

tpa Three-point attempts.

ft Free throws made.

fta Free throw attempts.

ts True shooting percentage.

ts_att True shooting attempts.

main_selling_point The main selling point of the player.

age The age of the player at the time of the draft.

wingspan The wingspan of the player.

standing_reach The standing reach of the player.

similar_player A player with a similar profile.

profile Profile description of the player.

analysis An analysis of the player's potential and performance.

projection Projection of the player's future performance.

date_of_birth The date of birth of the player.

hometown The hometown of the player.

high_school The high school the player attended.

rebounding Evaluation of the player's rebounding skills.

potential Evaluation of the player's potential.

post_skills Evaluation of the player's post skills.

intangibles Evaluation of the player's intangibles.

international_team The international team the player has been part of.

athleticism Evaluation of the player's athleticism.

size Evaluation of the player's size.

defense Evaluation of the player's defensive skills.

strength Evaluation of the player's strength.

quickness Evaluation of the player's quickness.

leadership Evaluation of the player's leadership skills.

jumpshot Evaluation of the player's jumpshot.

nba_ready Evaluation of the player's NBA readiness.

mock_draft_rank The player's ranking in mock drafts.

big_board_rank The player's ranking on big boards.

overall_rank The player's overall ranking.

Examples

```
# Load the dataset
data(nba_data)

# View the first few rows
head(nba_data)

# View players who attended Duke
library(dplyr)
duke_players <- nba_data |>
  filter(college_abbreviation == "DUKE")
print(duke_players)

# Average score by position
avg_score_by_position <- nba_data |>
  group_by(position) |>
  summarise(avg_score = mean(player_score, na.rm = TRUE))
print(avg_score_by_position)

# Calculate the average points per 40 minutes
avg_pts_per40 <- nba_data |>
  summarise(avg_pts = mean(pts_per40, na.rm = TRUE))
print(avg_pts_per40)

# Count the number of players from each college
college_counts <- nba_data |>
  group_by(college_abbreviation) |>
  summarise(count = n())
```

```
print(college_counts)
```

---

nba_data_base *NBA Data Base*

Description

Filter NBA Data by Source (Base)

Usage

```
nba_data_base()
```

Format

A `tibble` with the following columns:

name The name of the player.

year The year of the draft.

round The round in which the player was drafted.

Details

Filters and selects NBA data from the Base (ESPN.com) source.

Value

A filtered and selected tibble of NBA data from Base.

Examples

```
# Filter NBA data for base source
base_data <- nba_data_base()

# View the first few rows
head(base_data)
```

---

nba_data_espn *NBA Data ESPN*

Description

Filter NBA Data by Source (ESPN)

Usage

```
nba_data_espn()
```

Format

A `tibble` with the following columns:

name The name of the player.

year The year of the draft.

height The height of the player.

weight The weight of the player.

school The school the player attended.

college_abbreviation The abbreviation of the college the player attended.

pros The pros of the player's abilities.

cons The cons of the player's abilities.

verdict The overall verdict on the player's potential.

pre_draft_analysis Analysis of the player before the draft.

post_draft_analysis Analysis of the player after the draft.

ranking The player's ranking.

player_score The score given to the player.

Details

Filters and selects NBA data from ESPN for the given source value.

Value

A filtered and selected tibble of NBA data from ESPN.

Examples

```
# Filter NBA data for ESPN
espn_data <- nba_data_espn()

# View the first few rows
head(espn_data)
```

---

nba_data_nbadraft_net *NBA Data NBADraft.net*

Description

Filter NBA Data by Source (NBADraft.net)

Usage

```
nba_data_nbadraft_net()
```

Format

A `tibble` with the following columns:

name The name of the player.

height The height of the player.

weight The weight of the player.

position The position the player plays.

school The school the player attended.

date_of_birth The date of birth of the player.

hometown The hometown of the player.

high_school The high school the player attended.

international_team The international team the player has been part of.

athleticism Evaluation of the player's athleticism.

size Evaluation of the player's size.

defense Evaluation of the player's defensive skills.

strength Evaluation of the player's strength.

quickness Evaluation of the player's quickness.

leadership Evaluation of the player's leadership skills.

jumpshot Evaluation of the player's jumpshot.

nba_ready Evaluation of the player's NBA readiness.

rebounding Evaluation of the player's rebounding skills.

potential Evaluation of the player's potential.

post_skills Evaluation of the player's post skills.

intangibles Evaluation of the player's intangibles.

mock_draft_rank The player's ranking in mock drafts.

big_board_rank The player's ranking on big boards.

overall_rank The player's overall ranking.

similar_player A player with a similar profile.

pros The pros of the player's abilities.

cons The cons of the player's abilities.

Details

Filters and selects NBA data from NBADraft.net for the given source value.

Value

A filtered and selected tibble of NBA data from NBADraft.net.

Examples

```
# Filter NFL data for NBADraft.net
nbadraft <- nba_data_nbadraft_net()

# View the first few rows
head(nbadraft)
```

---

nba_data_nba_com   *NBA Data NBA.com*

Description

Filter NBA Data by Source (NBA.com)

Usage

```
nba_data_nba_com()
```

Format

A `tibble` with the following columns:

name The name of the player.

year The year of the draft.

position The position the player plays.

school The school the player attended.

weight The weight of the player.

grade The grade given to the player.

date_of_birth The date of birth of the player.

profile Profile description of the player.

analysis An analysis of the player's potential and performance.

projection Projection of the player's future performance.

Details

Filters and selects NBA data from NBA.com for the given source value.

Value

A filtered and selected tibble of NBA data from NBA.com.

Examples

```
# Filter NFL data for NBA.com
nba_com <- nba_data_nba_com()

# View the first few rows
head(nba_com)
```

---

nba_data_the_ringer   *NBA Data The Ringer*

Description

Filter NBA Data by Source (The Ringer)

Usage

```
nba_data_the_ringer()
```

Format

A `tibble` with the following columns:

name The name of the player.

year The year of the draft.

position The position the player plays.

school The school the player attended.

grade The grade given to the player.

pts_total Total points scored by the player.

pts_per40 Points per 40 minutes played.

reb_total Total rebounds by the player.

reb_per40 Rebounds per 40 minutes played.

ast_total Total assists by the player.

ast_per40 Assists per 40 minutes played.

efg Effective field goal percentage.

fga Field goal attempts.

stl_total Total steals by the player.

stl_per40 Steals per 40 minutes played.

blk_total Total blocks by the player.

blk_per40 Blocks per 40 minutes played.

tpt Three-point shots made.

tpa Three-point attempts.

ft Free throws made.

fta Free throw attempts.

ts True shooting percentage.

ts_att True shooting attempts.

main_selling_point The main selling point of the player.

age The age of the player at the time of the draft.

height The height of the player.

weight The weight of the player.

wingspan The wingspan of the player.

standing_reach The standing reach of the player.

analysis An analysis of the player's potential and performance.

similar_player A player with a similar profile.

pros The pros of the player's abilities.

cons The cons of the player's abilities.

Details

Filters and selects NBA data from The Ringer for the given source value.

Value

A filtered and selected tibble of NBA data from The Ringer.

Examples

```
# Filter NFL data for The Ringer
ringer_data <- nba_data_the_ringer()

# View the first few rows
head(ringer_data)
```

Description

A dataset of all first-round picks in the NFL, including various draft metrics.

Usage

```
nfl_data
```

Format

A `tibble` with the following columns:

`source` The source of the data.

`name` The name of the player.

`year` The year of the draft.

`rank` The rank of the player.

`round` The round in which the player was drafted.

`height` The height of the player.

`weight` The weight of the player.

`position` The position of the player.

`college` The college the player attended.

`pros` The pros of the player's abilities.

`cons` The cons of the player's abilities.

`similar_player` A similar player for comparison.

`summary` A summary of the player's abilities.

`arm_length` The arm length of the player.

`hand_length` The hand length of the player.

`next_gen_production_score` The Next Gen production score.

`next_gen_athleticism_score` The Next Gen athleticism score.

`forty_yard_dash` The forty-yard dash time.

`vertical_jump` The vertical jump height.

`nfl_prospect_grade` The NFL prospect grade.

`home_town` The hometown of the player.

`broad_jump` The broad jump distance.

`three_cone_drill` The three-cone drill time.

`twenty_yard_shuttle` The twenty-yard shuttle time.

`bench_press` The bench press reps.

`college_abbrivation` The abbreviation of the college.

`pre_draft` Pre-draft information.

`post_draft` Post-draft information.

`position_rank` The position rank of the player.

`overall_rank` The overall rank of the player.

`grade` The grade of the player.

`school` The school the player attended.

`yds` Yards the player ran.

`ypa` The yards per attempt.

`ypr` The yards per reception.

`tds` Number of touchdowns the player performed.

`ints` The interceptions.

`rtg` The rating of the player.

`tkls` The number of taclees of the player.

`tfl` The tackles for loss.

`ypc` The yards per carry.

`pbu` The pass break-ups of the player.

`twenty_plus` Plays of twenty or more yards.

`sacks` Number of sacks of the player.

`gms` The number of games played.

`strts` The number of games started.

`sk_all` The number of sack allowed.

`age` The age of the player.

`main_selling_point` The main selling point of the player.

`description` The description of the player.

`scouting_report` The scouting report.

`score` Players score from 1-100.

Examples

```
# Load the dataset
data(nfl_data)

# View the first few rows
head(nfl_data)

# Filter data for NFL.com source
nfl_com_data <- nfl_data[nfl_data$source == "NFL.com", ]

# Filter data for The Ringer source
the_ringer_data <- nfl_data[nfl_data$source == "The Ringer", ]
```

---

nfl_data_base   *NFL Data Base*

Description

Filter NFL Data by Source (Base)

Usage

```
nfl_data_base()
```

Format

A `tibble` with the following columns:

`name` The name of the player.

`round` The round in which the player was drafted.

`rank` The rank of the player.

Details

Filters and selects NFL data from the base source for the given source value.

Value

A filtered and selected tibble of NFL data.

Examples

```
# Filter NFL data for base source
base_data <- nfl_data_base()

# View the first few rows
head(base_data)
```

---

nfl_data_espn   *NFL Data ESPN*

Description

Filter NFL Data by Source (ESPN)

Usage

```
nfl_data_espn()
```

Format

A `tibble` with the following columns:

`source` The source of the data.

`name` The name of the player.

`year` The year of the draft.

`height` The height of the player.

`weight` The weight of the player.

`college` The college the player attended.

`college_abbrivation` The abbreviation of the college.

`pre_draft` Pre-draft information.

`post_draft` Post-draft information.

`position_rank` The position rank of the player.

`overall_rank` The overall rank of the player.

`score` The player's score from 1-100.

Details

Filters and selects NFL data from ESPN for the given source value.

Value

A filtered and selected tibble of NFL data from ESPN.

Examples

```
# Filter NFL data for ESPN source
espn_data <- nfl_data_espn()

# View the first few rows
head(espn_data)
```

`nfl_data_nfl_com` *NFL Data NFL.com*

Description

Filter NFL Data by Source (NFL.com)

Usage

```
nfl_data_nfl_com()
```

Format

A `tibble` with the following columns:

`name` The name of the player.

`year` The draft year of the player.

`height` The height of the player.

`weight` The weight of the player.

`position` The position of the player.

`college` The college the player attended.

`pros` The pros of the player's abilities.

`cons` The cons of the player's abilities.

`similar_player` A similar player for comparison.

`summary` A summary of the player's abilities.

Details

Filters and selects NFL data from NFL.com for the given source value.

Value

A filtered and selected tibble of NFL data from NFL.com.

Examples

```
# Filter NFL data for NFL.com
nfl_data <- nfl_data_nfl_com()

# View the first few rows
head(nfl_data)
```

`nfl_data_the_ringer`   *NFL Data The Ringer*

Description

Filter NFL Data by Source (The Ringer)

Usage

```
nfl_data_the_ringer()
```

Format

A `tibble` with the following columns:

name The name of the player.

rank The rank of the player.

year The draft year of the player.

position The position of the player.

college The college the player attended.

grade The grade of the player.

yds The number of yards the player ran.

ypa The yards per attempt.

ypr The yards per reception.

tds The number of touchdowns by the player.

ints The number of interceptions.

rtg The rating of the player.

tkls The number of tackles by the player.

tfl The number of tackles for loss.

ypc The yards per carry.

pbu The number of pass break-ups by the player.

twenty_plus The number of plays of twenty or more yards.

sacks The number of sacks by the player.

gms The number of games played.

strts The number of games started.

sk_all The number of sacks allowed by the player.

height The height of the player.

weight The weight of the player.

age The age of the player.

main_selling_point The main selling point of the player.

description A description of the player.

similar_player A similar player for comparison.

scouting_report The scouting report of the player.

pros The pros of the player's abilities.

cons The cons of the player's abilities.

Details

Filters and selects NFL data from The Ringer for the given source value.

Value

A filtered and selected tibble of NFL data from The Ringer.

Examples

```
# Filter NFL data for The Ringer
ringer_data <- nfl_data_the_ringer()

# View the first few rows
head(ringer_data)
```

```
nfl_data_walter_football
```
NFL Data Walter Football

Description

Filter NFL Data by Source (Walter Football)

Usage

```
nfl_data_walter_football()
```

Format

A `tibble` with the following columns:

`name` The name of the player.

`year` The draft year of the player.

`height` The height of the player.

`weight` The weight of the player.

`arm_length` The arm length of the player.

`hand_length` The hand length of the player.

`college` The college the player attended.

`position` The position of the player.

`next_gen_production_score` The Next Gen production score.

`next_gen_athleticism_score` The Next Gen athleticism score.

`forty_yard_dash` The forty-yard dash time.

`vertical_jump` The vertical jump height.

`nfl_prospect_grade` The NFL prospect grade.

`home_town` The hometown of the player.

`broad_jump` The broad jump distance.

`three_cone_drill` The three-cone drill time.

`twenty_yard_shuttle` The twenty-yard shuttle time.

`bench_press` The bench press reps.

`similar_player` A similar player for comparison.

`summary` A summary of the player's abilities.

`pros` The pros of the player's abilities.

`cons` The cons of the player's abilities.

Details

Filters and selects NFL data from Walter Football for the given source value.

Value

A filtered and selected tibble of NFL data from Walter Football.

Examples

```
# Filter NFL data for Walter Football source
walter_data <- nfl_data_walter_football()

# View the first few rows
head(walter_data)
```

---

nhl_data   *NHL Draft Data*

Description

A dataset of all first-round picks in the NHL, including various draft metrics.

Usage

```
nhl_data
```

Format

A `tibble` with the following columns:

source The source of the data.
name The name of the player.
year The year of the draft.
rank The rank of the player in the draft.
round The round in which the player was drafted.
date_of_birth The date of birth of the player.
age The age of the player at the time of the draft.
current_team The current team of the player.
league The league the player was playing in before the draft.
scouting_report A scouting report of the player.
team_fit How well the player fits with the drafting team.
likely_to_play The likelihood of the player playing in the NHL.
position The position the player plays.
city The city associated with the player or team.
team The team that selected the player.
analysis An analysis of the player's potential and performance.

Examples

```
# Load the dataset
data(nhl_data)

# View the first few rows
head(nhl_data)

# Filter the data for players drafted in a specific year, e.g., 2023
nhl_2023 <- dplyr::filter(nhl_data, year == 2023)

# View the first few rows
head(nhl_2023)

# Filter the data to include only ESPN as the source
nhl_data |>
  dplyr::filter(source == "ESPN")
```

---

nhl_data_base   *NHL Data Base*

Description

Filter NHL Data by Source (Base)

Usage

```
nhl_data_base()
```

Format

A `tibble` with the following columns:

name The name of the player.

round The round in which the player was drafted.

rank The rank of the player in the draft.

Details

Filters and selects NHL data from the base source for the given source value.

Value

A filtered and selected tibble of NHL data.

Examples

```
# Filter NHL data for base source
base_data <- nhl_data_base()

# View the first few rows
head(base_data)
```

---

nhl_data_espn   *NHL Data ESPN*

Description

Filter NHL Data by Source (ESPN)

Usage

```
nhl_data_espn()
```

Format

A `tibble` with the following columns:

name The name of the player.

year The year of the draft.

date_of_birth The date of birth of the player.

age The age of the player at the time of the draft.

current_team The current team of the player.

league The league the player was playing in before the draft.

scouting_report A scouting report of the player.

team_fit How well the player fits with the drafting team.

likely_to_play The likelihood of the player playing in the NHL.

Details

Filters and selects NHL data from ESPN for the given source value.

Value

A filtered and selected tibble of NHL data from ESPN.

Examples

```
# Filter NHL data for ESPN
espn_data <- nhl_data_espn()

# View the first few rows
head(espn_data)
```

nhl_data_nhl_com *NHL Data NHL.com*

Description

Filter NHL Data by Source (NHL.com)

Usage

```
nhl_data_nhl.com()
```

Format

A `tibble` with the following columns:

name The name of the player.

year The year of the draft.

position The position the player plays.

city The city associated with the player or team.

team The team that selected the player.

league The league the player was playing in before the draft.

scouting_report A scouting report of the player.

analysis An analysis of the player's potential and performance.

Details

Filters and selects NHL data from NHL.com for the given source value.

Value

A filtered and selected tibble of NHL data from NHL.com.

Examples

```
# Filter NHL data for nhl.com
nhl_com_data <- nhl_data_nhl.com()

# View the first few rows
head(nhl_com_data)
```

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