## DATA 300 3 Homework 4 Solution

## Aadarsha Gopala Reddy

November 1, 2022

## Contents

```
# load the libraries
library(rvest)
library(tidyverse)
## -- Attaching packages -----
                                                ----- tidyverse 1.3.2 --
## v ggplot2 3.3.6 v purrr 0.3.5
## v tibble 3.1.8 v dplyr 1.0.10
## v tidyr 1.2.1
                    v stringr 1.4.1
## v readr
                     v forcats 0.5.2
          2.1.3
## -- Conflicts ----- tidyverse conflicts() --
## x dplyr::filter()
                         masks stats::filter()
## x readr::guess_encoding() masks rvest::guess_encoding()
## x dplyr::lag()
                         masks stats::lag()
library(dplyr)
library(xml2)
library(RSelenium)
# get the page html
page <- read_html("https://www.espncricinfo.com/player/team/india-6")</pre>
# output the html text to a text file
write_html(page, "html_text.txt")
```

Because the original page is a scrollable version, we need to get the html of the page after scrolling down to the bottom of the page. This has to be done manually due to the dynamic nature of the page.

```
# The html of the page after scrolling down to the bottom is saved in the file "html_text2.txt"
page <- read_html("html_text2.html")

# get the text from the page itself
compact_name <- page %>%
    html_nodes(".ds-text-compact-l.ds-font-medium.ds-text-ui-typo") %>%
    html_text()
name <- page %>%
    html_nodes(".ds-text-tight-l") %>%
    html_text()
age <- page %>%
    html_nodes(".ds-text-tight-m.ds-font-regular.ds-text-ui-typo-mid") %>%
    html_nodes(".ds-text-tight-m.ds-font-regular.ds-text-ui-typo-mid") %>%
    html_text()
```

```
# get the nodes with this specific class
# ".ds-inline-flex.ds-items-start.ds-leading-none"
# and then get the href attribute from those node
links <- page %>%
  html nodes(".ds-inline-flex.ds-items-start.ds-leading-none") %>%
  html attr("href") %>%
  paste("", ., sep = "")
# keep only the links which start with "https://www.espncricinfo.com/player/"
# (keep only links to player pages)
links <- links[grepl("https://www.espncricinfo.com/player/", links)]</pre>
# remove last the row
links <- links[-length(links)]</pre>
# get the data for each player
more_info <- function(player_link) {</pre>
  player_page <- read_html(player_link)</pre>
  player_info <- player_page %>%
    html_nodes(".ds-p-4") %>%
    html text()
  player_info <- as.data.frame(</pre>
    player_info,
    stringsAsFactors = FALSE
  return(player_info)
# call the function for each link in the links list
player_info <- lapply(links, more_info)</pre>
# convert the list to a dataframe
player_info_dataframe <- do.call(rbind, player_info)</pre>
# keep only the rows containing "Full Name"
player_info_dataframe <- player_info_dataframe[</pre>
  grepl("Full Name", player_info_dataframe$player_info),
# export as csv
write.csv(
  player_info_dataframe,
  "player_info_dataframe.csv",
 row.names = FALSE
)
# duplicate the dataframe
player_info_dataframe2 <- read.csv("player_info_dataframe.csv")</pre>
# loop through each row in the dataframe
for (i in seq_len(nrow(player_info_dataframe2))) {
  # remove text "TEAMS" and after
  player_info_dataframe2[i, 1] <-</pre>
    gsub("TEAMS.*", "", player_info_dataframe2[i, 1])
```

```
# put text "RELATIONS" and after, into a new column
player info dataframe2$relations[i] <-</pre>
 strsplit(player_info_dataframe2$x[i], "RELATIONS")[[1]][2]
# remove text "RELATIONS" and after, from the original column
player_info_dataframe2[i, 1] <-</pre>
 gsub("RELATIONS.*", "", player info dataframe2[i, 1])
# put text "Playing Role" and after, into a new column
player_info_dataframe2$playing_role[i] <-</pre>
 strsplit(player_info_dataframe2$x[i], "Playing Role")[[1]][2]
# remove text after "Playing Role" from the original column
player_info_dataframe2[i, 1] <-</pre>
 gsub("Playing Role.*", "", player_info_dataframe2[i, 1])
# put text "Fielding Position" and after, into a new column
player_info_dataframe2$fielding_position[i] <-</pre>
 strsplit(player_info_dataframe2$x[i], "Fielding Position")[[1]][2]
# remove text "Fielding Position" and after, from the original column
player_info_dataframe2[i, 1] <-</pre>
 gsub("Fielding Position.*", "", player_info_dataframe2[i, 1])
# put text "Bowling Style" and after, into a new column
player_info_dataframe2$bowling_style[i] <-</pre>
 strsplit(player_info_dataframe2$x[i], "Bowling Style")[[1]][2]
# remove text "Bowling Style" and after, from the original column
player_info_dataframe2[i, 1] <-</pre>
 gsub("Bowling Style.*", "", player_info_dataframe2[i, 1])
# put text "Batting Style" and after, into a new column
player info dataframe2$batting style[i] <-</pre>
 strsplit(player_info_dataframe2$x[i], "Batting Style")[[1]][2]
# remove text "Batting Style" and after, from the original column
player_info_dataframe2[i, 1] <-</pre>
 gsub("Batting Style.*", "", player_info_dataframe2[i, 1])
# put text "Also Known As" and after, into a new column
player_info_dataframe2$aka[i] <-</pre>
 strsplit(player_info_dataframe2$x[i], "Also Known As")[[1]][2]
# remove text "Also Known As" and after, from the original column
player_info_dataframe2[i, 1] <-</pre>
 gsub("Also Known As.*", "", player_info_dataframe2[i, 1])
```

```
# put text "Age" and after, into a new column
player info dataframe2$age[i] <-</pre>
  strsplit(player_info_dataframe2$x[i], "Age")[[1]][2]
# remove text "Age" and after, from the original column
player_info_dataframe2[i, 1] <-</pre>
 gsub("Age.*", "", player info dataframe2[i, 1])
# put text "Born" and after, into a new column
player_info_dataframe2$born[i] <-</pre>
  strsplit(player_info_dataframe2$x[i], "Born")[[1]][2]
# remove text "Born" and after, from the original column
player_info_dataframe2[i, 1] <-</pre>
  gsub("Born.*", "", player_info_dataframe2[i, 1])
# born column format: "MMM DD, YYYY, City, State"
# split into seperate location and date columns
# extract the date into new column
player_info_dataframe2$birthday[i] <-</pre>
 strsplit(player_info_dataframe2$born[i], ",")[[1]][1]
# extract the year into new column
player_info_dataframe2$born_year[i] <-</pre>
  strsplit(player_info_dataframe2$born[i], ",")[[1]][2]
# combine date and year into birthday column
player_info_dataframe2$birthday[i] <-</pre>
 paste(
    player_info_dataframe2$born_year[i],
   player_info_dataframe2$born_date[i],
   sep = "-"
# calculate age from birthday and today's date
# replace the age column & round to 3 decimal places
player info dataframe2$age[i] <-</pre>
 round(as.numeric(
    difftime(
     Sys.Date(),
     as.Date(
       player_info_dataframe2$birthday[i],
       format = "%Y-%B %d"
     ),
     units = "auto"
 ) / 365, 3)
# extract the city into new column
player_info_dataframe2$born_city[i] <-</pre>
  strsplit(player_info_dataframe2$born[i], ",")[[1]][3]
# extract the state into new column
player_info_dataframe2$born_state[i] <-</pre>
```

```
strsplit(player_info_dataframe2$born[i], ",")[[1]][4]
  # combine city and state into new column
  player_info_dataframe2$birth_location[i] <-</pre>
   paste(player_info_dataframe2$born_city[i],
      player_info_dataframe2$born_state[i],
      sep = ","
  # put text "Full Name" and after, into a new column
  player_info_dataframe2$full_name[i] <-</pre>
    strsplit(player_info_dataframe2$x[i], "Full Name")[[1]][2]
  # remove text "Full Name" and after, from the original column
  player_info_dataframe2[i, 1] <-</pre>
    gsub("Full Name.*", "", player_info_dataframe2[i, 1])
# remove redundant columns
# (empty first column, born, born_year, born_city, born_state)
player_info_dataframe2 <- player_info_dataframe2[</pre>
  -c(1, 9, 11, 12, 13)
# add the players' links to the dataframe
player_info_dataframe2$links <- links</pre>
# reorder the columns
player_info_dataframe2 <- player_info_dataframe2[</pre>
  c(10, 6, 1, 8, 7, 9, 4, 5, 3, 2, 11)
٦
# export to csv
write.csv(player_info_dataframe2, "player_info2.csv", row.names = FALSE)
# output the dataframe
player_info_dataframe2
                             full_name
                                                   aka
## 1
                 Mayank Anurag Agarwal
                                                  <NA>
## 2
                        Arshdeep Singh
                                                  <NA>
                                                  <NA>
## 3
                   Ravichandran Ashwin
                                            Avesh Khan
## 4
                            Avesh Khan
## 5
                    Simran Dil Bahadur
                                                  <NA>
## 6
                         Taniya Bhatia
                                                  <NA>
## 7
                 Yastika Harish Bhatia
                                                  <NA>
## 8
                            Ekta Bisht
                                                  <NA>
## 9
            Jasprit Jasbirsingh Bumrah
                                                  <NA>
## 10
                Yuzvendra Singh Chahal
                                                  <NA>
## 11
           Deepak Lokandersingh Chahar
                                       Deepak Chahar
## 12
                   Rahul Desraj Chahar
                                                  <NA>
## 13
                          Harleen Deol
                                                  <NA>
```

##	14	Shikhar Dhawan	<na></na>
##	15	Ruturaj Dashrat Gaikwad	<na></na>
##	16	Rajeshwari Shivanand Gayakwad	<na></na>
##	17	Richa Manabendra Ghosh	<na></na>
##	18	Jhulan Nishit Goswami	Babul
##	19	Dayalan Hemalatha	<na></na>
##	20	Deepak Jagbir Hooda	<na></na>
##	21	Ishan Pranav Kumar Pandey Kishan	<na></na>
##	22	Shreyas Santosh Iyer	<na></na>
##	23	Venkatesh Rajasekaran Iyer	Venkatesh Iyer
##	24	Ravindrasinh Anirudhsinh Jadeja	<na></na>
##	25	Krishnakumar Dinesh Karthik	Dinesh
##	26	Harmanpreet Kaur Bhullar	<na></na>
##	27	Virat Kohli	<na></na>
##	28	Kuldeep Yadav	<na></na>
	29	Bhuvneshwar Kumar Singh	<na></na>
##	30	Smriti Shriniwas Mandhana	<na></na>
##	31	Sabbhineni Meghana	<na></na>
##		Meghna Singh	<na></na>
##		Mohammed Shami Ahmed	<na></na>
##		Mohammed Siraj	<na></na>
##		3	
		Kiran Prabhu Navgire	<na></na>
##		Hardik Himanshu Pandya	<na></na>
##		Rishabh Rajendra Pant	<na></na>
##		Axar Rajeshbhai Patel	Akshar Patel
##		Harshal Vikram Patel	<na></na>
##		Poonam Yadav	<na></na>
##	41	Muralikrishna Prasidh Krishna	<na></na>
##	42	Cheteshwar Arvind Pujara	<na></na>
##	43	Ajinkya Madhukar Rahane	<na></na>
##	44	Kannaur Lokesh Rahul	<na></na>
##	45	Mithali Dorai Raj	<na></na>
##	46	Sneh Rana	<na></na>
##	47	Ravi Bishnoi	<na></na>
##	48	Renuka Singh Thakur	<na></na>
##	49	Jemimah Ivan Rodrigues	<na></na>
##	50	Wriddhiman Prasanta Saha	<na></na>
##	51	Sanju Viswanath Samson	<na></na>
##	52	Shafali Verma	<na></na>
##	53	Shahbaz Ahmed	<na></na>
##		Deepti Bhagwan Sharma	<na></na>
##		Ishant Sharma	<na></na>
##		Rohit Gurunath Sharma	<na></na>
	57	Shubman Gill	<na></na>
	58	Shardul Narendra Thakur	<na></na>
	59	Umran Malik	<na></na>
	60		<na></na>
	61	Varun Chakravarthy Vinod	
		Pooja Vastrakar	<na></na>
	62	Gade Hanuma Vihari	<na></na>
	63	Washington Sundar	<na></na>
##		Jayant Yadav	Jayant Yadav
##		Radha Prakash Yadav	<na></na>
##		Suryakumar Ashok Yadav	<na></na>
##	67	Umeshkumar Tilak Yadav	<na></na>

```
##
                                    relations birthday age
                                                   1991- <NA>
## 1
                                          <NA>
## 2
                                          <NA>
                                                   1999- <NA>
## 3
                                                   1986- <NA>
                                          <NA>
## 4
                                          <NA>
                                                   1996- <NA>
## 5
                                          <NA>
                                                   1999- <NA>
## 6
                                                   1997- <NA>
                                          <NA>
                                                   2000- <NA>
## 7
                                          <NA>
## 8
                                          <NA>
                                                   1986- <NA>
## 9
                                                   1993- <NA>
                                          <NA>
## 10
                                          <NA>
                                                   1990- <NA>
## 11
                          RD Chahar (cousin)
                                                   1992- <NA>
## 12
                          DL Chahar (cousin)
                                                   1999- <NA>
## 13
                                          <NA>
                                                   1998- <NA>
## 14
                                          <NA>
                                                   1985- <NA>
## 15
                                          <NA>
                                                   1997- <NA>
## 16
                                          <NA>
                                                   1991- <NA>
## 17
                                          <NA>
                                                   2003- <NA>
## 18
                                          <NA>
                                                   1982- <NA>
## 19
                                          <NA>
                                                   1994- <NA>
## 20
                                          <NA>
                                                   1995- <NA>
## 21
                                          <NA>
                                                   1998- <NA>
                                                   1994- <NA>
## 22
                                          <NA>
## 23
                                          <NA>
                                                   1994- <NA>
## 24
                                                   1988- <NA>
                                          <NA>
## 25
                                          <NA>
                                                   1985- <NA>
## 26
                                          <NA>
                                                   1989- <NA>
## 27
                                                   1988- <NA>
                                          <NA>
## 28
                                                   1994- <NA>
                                          < NA >
## 29
                                          <NA>
                                                   1990- <NA>
## 30
                                          <NA>
                                                   1996- <NA>
## 31
                                          <NA>
                                                   1996- <NA>
## 32
                                          <NA>
                                                   1994- <NA>
## 33
                     Mohammed Kaif (brother)
                                                   1990- <NA>
## 34
                                          <NA>
                                                   1994- <NA>
## 35
                                          <NA>
                                                     NA- <NA>
## 36
                         KH Pandya (brother)
                                                   1993- <NA>
## 37
                                          <NA>
                                                   1997- <NA>
## 38
                                          <NA>
                                                   1994- <NA>
## 39
                                                   1990- <NA>
                                          <NA>
## 40
                                                   1991- <NA>
                                          <NA>
## 41
                                          <NA>
                                                   1996- <NA>
## 42 AS Pujara (father), BS Pujara (uncle)
                                                   1988- <NA>
                                                   1988- <NA>
## 43
                                          <NA>
## 44
                                                   1992- <NA>
                                          <NA>
## 45
                                                   1982- <NA>
                                          <NA>
## 46
                                          <NA>
                                                   1994- <NA>
## 47
                                                   2000- <NA>
                                          < NA >
## 48
                                          <NA>
                                                   1996- <NA>
## 49
                                          <NA>
                                                   2000- <NA>
## 50
                                                   1984- <NA>
                                          <NA>
## 51
                                                   1994- <NA>
                                          < NA >
## 52
                                          <NA>
                                                   2004- <NA>
## 53
                                                   1994- <NA>
                                          <NA>
```

```
## 54
                                        <NA>
                                                 1997- <NA>
## 55
                                        <NA>
                                                 1988- <NA>
## 56
                                        <NA>
                                                 1987- <NA>
## 57
                                        <NA>
                                                 1999- <NA>
## 58
                                        <NA>
                                                 1991- <NA>
## 59
                                                 1999- <NA>
                                        <NA>
## 60
                                                 1991- <NA>
                                        <NA>
                                                 1999- <NA>
## 61
                                        <NA>
## 62
                                        <NA>
                                                 1993- <NA>
## 63
                        M Shailaja (sister)
                                                 1999- <NA>
## 64
                                        <NA>
                                                 1990- <NA>
## 65
                                        <NA>
                                                 2000- <NA>
## 66
                                        <NA>
                                                 1990- <NA>
                                                 1987- <NA>
## 67
                                        <NA>
##
                          birth_location
                                                                   bowling_style
## 1
                    Bangalore, Karnataka
                                                             Right arm Offbreak
##
  2
                    Guna, Madhya Pradesh
                                                           Left arm Medium fast
##
   3
       Madras (now Chennai), Tamil Nadu
                                                             Right arm Offbreak
## 4
                  Indore, Madhya Pradesh
                                                          Right arm Fast medium
## 5
                            New Delhi, NA
                                                               Right arm Medium
## 6
                      Chandigarh, Punjab
                                                                            <NA>
## 7
         Baroda (now Vadodara), Gujarat
                                                         Slow Left arm Orthodox
## 8
                   Almora, Uttar Pradesh
                                                         Slow Left arm Orthodox
## 9
                                                                 Right arm Fast
                            Ahmedabad.NA
## 10
                           Jind, Haryana
                                                                Legbreak Googly
## 11
                     Agra, Uttar Pradesh
                                                               Right arm Medium
## 12
                   Bharaatpur, Rajasthan
                                                                Legbreak Googly
## 13
                      Chandigarh, Punjab
                                           Right arm Offbreak, Legbreak Googly
## 14
                                Delhi, NA
                                                             Right arm Offbreak
## 15
                       Pune, Maharashtra
                                                             Right arm Offbreak
## 16
                      Bijapur, Karnataka
                                                         Slow Left arm Orthodox
## 17
                   Siliguri, West Bengal
                                                               Right arm Medium
## 18
                           Nadia, Bengal
                                                               Right arm Medium
## 19
       Madras (now Chennai), Tamil Nadu
                                                             Right arm Offbreak
                                                             Right arm Offbreak
## 20
                                Rohtak, NA
## 21
                            Patna, Bihar
                                                                            <NA>
## 22
                                Mumbai, NA
                                           Right arm Offbreak, Legbreak Googly
## 23
                  Indore, Madhya Pradesh
                                                               Right arm Medium
##
  24
                Navagam-Khed, Saurashtra
                                                         Slow Left arm Orthodox
##
   25
       Madras (now Chennai), Tamil Nadu
                                                             Right arm Offbreak
##
  26
                               Punjab, NA
                                                             Right arm Offbreak
## 27
                                Delhi, NA
                                                               Right arm Medium
## 28
                   Kanpur, Uttar Pradesh
                                                            Left arm Wrist spin
##
   29
                   Meerut, Uttar Pradesh
                                                               Right arm Medium
  30
       Bombay (now Mumbai), Maharashtra
                                                             Right arm Offbreak
## 31
                Krishna, Andhra Pradesh
                                                               Right arm Medium
##
  32
                   Bijnor, Uttar Pradesh
                                                               Right arm Medium
## 33
                   Amroha, Uttar Pradesh
                                                                  Right arm Fast
## 34
                            Hyderabad, NA
                                                          Right arm Medium fast
## 35
                                    NA, NA
                                                                            <NA>
## 36
                       Choryasi, Gujarat
                                                          Right arm Medium fast
## 37
                   Haridwar, Uttarakhand
                                                                            <NA>
## 38
                          Anand, Gujarat
                                                         Slow Left arm Orthodox
## 39
                         Sanand, Gujarat
                                                               Right arm Medium
```

```
## 40
                     Agra, Uttar Pradesh
                                                                Legbreak Googly
## 41
                   Bangalore, Karnataka
                                                         Right arm Fast medium
## 42
                         Rajkot, Gujarat
                                                                       Legbreak
## 43
                   Ashwi-KD, Maharashtra
                                                               Right arm Medium
## 44
                   Bangalore, Karnataka
                                                                            <NA>
## 45
                      Jodhpur, Rajasthan
                                                                       Legbreak
## 46
                 Dehra Dun, Uttarakhand
                                                             Right arm Offbreak
                      Jodhpur, Rajasthan
## 47
                                                                Legbreak Googly
## 48
               Shimla, Himachal Pradesh
                                                         Right arm Medium fast
## 49
                     Mumbai, Maharashtra
                                                             Right arm Offbreak
## 50
                           Shaktigarh, NA
                                                                            <NA>
## 51
                                                                            <NA>
                    Pulluvila, Vizhinjam
## 52
                         Rohtak, Haryana
                                                             Right arm Offbreak
## 53
                          Mewat, Haryana
                                                        Slow Left arm Orthodox
## 54
                     Agra, Uttar Pradesh
                                                             Right arm Offbreak
## 55
                                Delhi, NA
                                                         Right arm Fast medium
## 56
                          Bansod, Nagpur
                                                             Right arm Offbreak
## 57
                         Fazilka, Punjab
                                                             Right arm Offbreak
## 58
                   Palghar, Maharashtra
                                                               Right arm Medium
## 59
              Srinagar, Jammu & Kashmir
                                                                 Right arm Fast
##
  60
                        Bidar, Karnataka
                                                                Legbreak Googly
## 61
               Bilaspur, Madhya Pradesh
                                                               Right arm Medium
## 62
               Kakinada, Andhra Pradesh
                                                             Right arm Offbreak
                     Chennai, Tamil Nadu
## 63
                                                             Right arm Offbreak
                                                             Right arm Offbreak
## 64
                                Delhi, NA
## 65
                     Mumbai, Maharashtra
                                                         Slow Left arm Orthodox
## 66
                     Mumbai, Maharashtra Right arm Medium, Right arm Offbreak
##
   67
                     Nagpur, Maharashtra
                                                                 Right arm Fast
##
       batting_style fielding_position
## 1
      Right hand Bat
                                   <NA>
## 2
       Left hand Bat
                                   <NA>
## 3
      Right hand Bat
                                   <NA>
## 4
      Right hand Bat
                                   <NA>
## 5
       Left hand Bat
                                   <NA>
## 6
      Right hand Bat
                                    <NA>
## 7
       Left hand Bat
                                   <NA>
## 8
       Left hand Bat
                                   <NA>
## 9
      Right hand Bat
                                   <NA>
## 10 Right hand Bat
                                   <NA>
## 11 Right hand Bat
                                   <NA>
## 12 Right hand Bat
                                   <NA>
## 13 Right hand Bat
                                   <NA>
       Left hand Bat
## 14
                                   <NA>
## 15 Right hand Bat
                                   <NA>
## 16 Right hand Bat
                                   <NA>
## 17 Right hand Bat
                           Wicketkeeper
## 18 Right hand Bat
                                   <NA>
                                   <NA>
## 19 Right hand Bat
## 20 Right hand Bat
                                   <NA>
       Left hand Bat
                           Wicketkeeper
## 22 Right hand Bat
                                   <NA>
## 23 Left hand Bat
                                   <NA>
## 24 Left hand Bat
                                   <NA>
## 25 Right hand Bat
                           Wicketkeeper
```

```
## 26 Right hand Bat
                                   <NA>
## 27 Right hand Bat
                                   <NA>
## 28 Left hand Bat
                                   <NA>
## 29 Right hand Bat
                                   <NA>
## 30 Left hand Bat
                                   <NA>
## 31 Right hand Bat
                                   <NA>
## 32 Right hand Bat
                                   <NA>
## 33 Right hand Bat
                                   <NA>
## 34 Right hand Bat
                                   <NA>
## 35 Right hand Bat
                                   <NA>
## 36 Right hand Bat
                                   <NA>
## 37 Left hand Bat
                           Wicketkeeper
## 38 Left hand Bat
                                   <NA>
## 39 Right hand Bat
                                   <NA>
## 40 Right hand Bat
                                   <NA>
## 41 Right hand Bat
                                   <NA>
## 42 Right hand Bat
                                   <NA>
## 43 Right hand Bat
                                   <NA>
## 44 Right hand Bat
                           Wicketkeeper
## 45 Right hand Bat
                                   <NA>
## 46 Right hand Bat
                                   <NA>
## 47 Right hand Bat
                                   <NA>
## 48 Right hand Bat
                                   <NA>
## 49 Right hand Bat
                                   <NA>
## 50 Right hand Bat
                           Wicketkeeper
## 51 Right hand Bat
                           Wicketkeeper
## 52 Right hand Bat
                                   <NA>
## 53 Left hand Bat
                                   <NA>
## 54 Left hand Bat
                                   <NA>
## 55 Right hand Bat
                                   <NA>
## 56 Right hand Bat
                                   <NA>
## 57 Right hand Bat
                                   <NA>
## 58 Right hand Bat
                                   <NA>
## 59 Right hand Bat
                                   <NA>
## 60 Right hand Bat
                                   <NA>
## 61 Right hand Bat
                                   <NA>
## 62 Right hand Bat
                                   <NA>
## 63 Left hand Bat
                                   <NA>
## 64 Right hand Bat
                                   <NA>
## 65 Right hand Bat
                                   <NA>
## 66 Right hand Bat
                                   <NA>
## 67 Right hand Bat
                                   <NA>
                                                                                         playing_role
## 1
                                                                                               Batter
## 2
                                                                                               Bowler
## 3
                                                                                   Bowling Allrounder
## 4
                                                                                               Bowler
## 5
                                                                                  Bowling Allrounder
## 6
                                                                                  Wicketkeeper Batter
## 7
                                                                                  Middle order Batter
## 8
                                                                                               Bowler
## 9
                                                                                               Bowler
## 10
                                                                                               Bowler
## 11
                                                                                               Bowler
```

```
## 12
                                                                                                Bowler
## 13
                                                                                  Middle order Batter
## 14
                                                                                        Opening Batter
## 15
                                                                                                Batter
## 16
                                                                                                Bowler
## 17
                                                                                  Wicketkeeper Batter
## 18
                                                                                                Bowler
## 19
                                                                                      Top order Batter
## 20
                                                                                            Allrounder
## 21
                                                                                  Wicketkeeper Batter
## 22
                                                                                     Top order Batter
## 23
                                                                                            Allrounder
## 24
                                                                                            Allrounder
## 25
                                                                                  Wicketkeeper Batter
## 26
                                                                                            Allrounder
## 27
                                                                                      Top order Batter
## 28
                                                                                                Bowler
## 29
                                                                                                Bowler
## 30
                                                                                        Opening Batter
## 31
                                                                                        Opening Batter
## 32
                                                                                                Bowler
## 33
                                                                                                Bowler
## 34
                                                                                                Bowler
## 35
                                                                                  Middle order Batter
## 36
                                                                                            Allrounder
## 37
                                                                                  Wicketkeeper Batter
## 38
                                                                                   Bowling Allrounder
## 39
                                                                                                Bowler
## 40
                                                                                                Bowler
## 41
                                                                                                Bowler
## 42
                                                                                     Top order Batter
## 43
                                                                                     Top order Batter
## 44
                                                                                        Opening Batter
                                                                                      Top order Batter
## 45
## 46
                                                                                   Bowling Allrounder
## 47
                                                                                                Bowler
## 48
                                                                                                Bowler
## 49 Middle order BatterEducationSt. Joseph's Convent high school, Bandra. Rizvi College, Bandra
## 50
                                                                                  Wicketkeeper Batter
## 51
                                                                                  Wicketkeeper Batter
## 52
                                                                                        Opening Batter
## 53
                                                                                            Allrounder
## 54
                                                                                            Allrounder
## 55
                                                                                                Bowler
## 56
                                                                                     Top order Batter
## 57
                                                                                        Opening Batter
## 58
                                                                                                Bowler
## 59
                                                                                                Bowler
## 60
                                                                                                Bowler
## 61
                                                                                                Bowler
## 62
                                                                                   Batting Allrounder
## 63
                                                                                   Bowling Allrounder
                                                                                                Bowler
## 64
## 65
                                                                                                Bowler
```

Batter Bowler

## 67 ## links ## https://www.espncricinfo.com/player/mayank-agarwal-398438 1 ## 2 https://www.espncricinfo.com/player/arshdeep-singh-1125976 ## 3 https://www.espncricinfo.com/player/ravichandran-ashwin-26421 ## 4 https://www.espncricinfo.com/player/avesh-khan-694211 ## 5 https://www.espncricinfo.com/player/simran-bahadur-1204925 6 https://www.espncricinfo.com/player/taniya-bhatia-883423 ## 7 https://www.espncricinfo.com/player/yastika-bhatia-960715 ## 8 https://www.espncricinfo.com/player/ekta-bisht-442048 ## 9 https://www.espncricinfo.com/player/jasprit-bumrah-625383 ## 10 https://www.espncricinfo.com/player/yuzvendra-chahal-430246 ## 11 https://www.espncricinfo.com/player/deepak-chahar-447261 ## 12 https://www.espncricinfo.com/player/rahul-chahar-1064812 ## 13 https://www.espncricinfo.com/player/harleen-deol-960845 14 ## https://www.espncricinfo.com/player/shikhar-dhawan-28235 ## 15 https://www.espncricinfo.com/player/ruturaj-gaikwad-1060380 16 ## https://www.espncricinfo.com/player/rajeshwari-gayakwad-709635 ## 17 https://www.espncricinfo.com/player/richa-ghosh-1212830 ## 18 https://www.espncricinfo.com/player/jhulan-goswami-53932 ## 19 https://www.espncricinfo.com/player/dayalan-hemalatha-961107 ## 20 https://www.espncricinfo.com/player/deepak-hooda-497121 21 https://www.espncricinfo.com/player/ishan-kishan-720471 ## 22 https://www.espncricinfo.com/player/shreyas-iyer-642519 23 https://www.espncricinfo.com/player/venkatesh-iyer-851403 24 ## https://www.espncricinfo.com/player/ravindra-jadeja-234675 25 https://www.espncricinfo.com/player/dinesh-karthik-30045 ## 26 https://www.espncricinfo.com/player/harmanpreet-kaur-372317 ## 27 https://www.espncricinfo.com/player/virat-kohli-253802 ## 28 https://www.espncricinfo.com/player/kuldeep-yadav-559235 ## 29 https://www.espncricinfo.com/player/bhuvneshwar-kumar-326016 ## 30 https://www.espncricinfo.com/player/smriti-mandhana-597806 ## 31 https://www.espncricinfo.com/player/sabbhineni-meghana-556529 32 https://www.espncricinfo.com/player/meghna-singh-709839 ## 33 ## https://www.espncricinfo.com/player/mohammed-shami-481896 ## 34 https://www.espncricinfo.com/player/mohammed-siraj-940973 35 https://www.espncricinfo.com/player/kiran-prabhu-navgire-1289983 ## ## 36 https://www.espncricinfo.com/player/hardik-pandya-625371 37 https://www.espncricinfo.com/player/rishabh-pant-931581 ## 38 https://www.espncricinfo.com/player/axar-patel-554691 39 https://www.espncricinfo.com/player/harshal-patel-390481 ## 40 https://www.espncricinfo.com/player/poonam-yadav-630972 ## 41 https://www.espncricinfo.com/player/prasidh-krishna-917159 ## 42 https://www.espncricinfo.com/player/cheteshwar-pujara-32540 ## 43 https://www.espncricinfo.com/player/ajinkya-rahane-277916 ## 44 https://www.espncricinfo.com/player/kl-rahul-422108 ## 45 https://www.espncricinfo.com/player/mithali-raj-54273 ## 46 https://www.espncricinfo.com/player/sneh-rana-556537 ## 47 https://www.espncricinfo.com/player/ravi-bishnoi-1175441 ## 48 https://www.espncricinfo.com/player/renuka-singh-960853 ## 49 https://www.espncricinfo.com/player/jemimah-rodrigues-883405 ## 50 https://www.espncricinfo.com/player/wriddhiman-saha-279810 ## 51 https://www.espncricinfo.com/player/sanju-samson-425943

## 66

```
## 52
             https://www.espncricinfo.com/player/shafali-verma-1182523
             https://www.espncricinfo.com/player/shahbaz-ahmed-1159711
## 53
              https://www.espncricinfo.com/player/deepti-sharma-597811
## 54
## 55
              https://www.espncricinfo.com/player/ishant-sharma-236779
                https://www.espncricinfo.com/player/rohit-sharma-34102
## 56
## 57
              https://www.espncricinfo.com/player/shubman-gill-1070173
             https://www.espncricinfo.com/player/shardul-thakur-475281
## 58
               https://www.espncricinfo.com/player/umran-malik-1246528
## 59
## 60
        https://www.espncricinfo.com/player/varun-chakravarthy-1108375
## 61
            https://www.espncricinfo.com/player/pooja-vastrakar-883413
## 62
              https://www.espncricinfo.com/player/hanuma-vihari-452044
## 63
          https://www.espncricinfo.com/player/washington-sundar-719715
               https://www.espncricinfo.com/player/jayant-yadav-447587
##
  64
                https://www.espncricinfo.com/player/radha-yadav-960737
## 65
## 66
           https://www.espncricinfo.com/player/suryakumar-yadav-446507
                https://www.espncricinfo.com/player/umesh-yadav-376116
## 67
```