

# Tourism in India Project Report

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## Introduction

This report provides a detailed explanation of the “Tourism in India” Shiny app. The app is designed to display tourism-related data and visualizations for various parts of India, motorcycle tours, and travel information by month.

India is a land of diverse cultures, landscapes, and traditions which offers a captivating tapestry for tourists. Our project, “Exploring India’s Hidden Gems,” seeks to showcase the uncharted beauty and rich heritage of this incredible country. With a focus on sustainable and responsible tourism, we aim to promote lesser-known destinations, unique cultural experiences, and eco-friendly practices. Through this project, we aspire to foster economic growth in local communities, preserve India’s natural wonders, and provide travelers with unforgettable journeys that go beyond the usual tourist trail. Join us on a transformative voyage through the heart of India and discover its untold stories.

## Objective

This project aims to provide users with an immersive experience by offering a curated selection of the top ten most favorable places in each selected area.

Our Shiny app, ‘Discover India’s Treasures,’ is a user-friendly platform designed to help travelers and enthusiasts explore the breathtaking beauty and cultural richness of India’s diverse states and main regions.

## Data Extraction and Preprocessing

We are extracting data from “[https://en.wikipedia.org/wiki/Tourism\\_in\\_India](https://en.wikipedia.org/wiki/Tourism_in_India) ([https://en.wikipedia.org/wiki/Tourism\\_in\\_India](https://en.wikipedia.org/wiki/Tourism_in_India))”.

Basically we collect the pictures name and the picture url.

We extracted tables as follows:-

table\_1 for Foreign tourist arrivals in India (1997–20222).

table\_2 for Foreign exchange earnings from tourism in India (1997–2020).

table\_3 for Source countries for foreign tourist arrivals in India in 2019.

table\_4 for Share of top 10 states/UT’s of India in number of foreign tourist visits in 2017.

table\_5 for Share of top 10 states/UT’s of India in number of domestic tourist visits in 2017.

The app fetches data from web sources, primarily Wikipedia. It retrieves tables and images related to tourism in India.

we also try to scrap the places description and put this as a link in shiny app.

final\_table for scrapped\_final\_table .

# Data Visualization and Analysis

The app uses a combination of ggplot2 and DT for data visualization and analysis. Each of the following sections corresponds to a specific tab within the app.

## Foreign Tourist Arrivals in India (1997 – 2022)

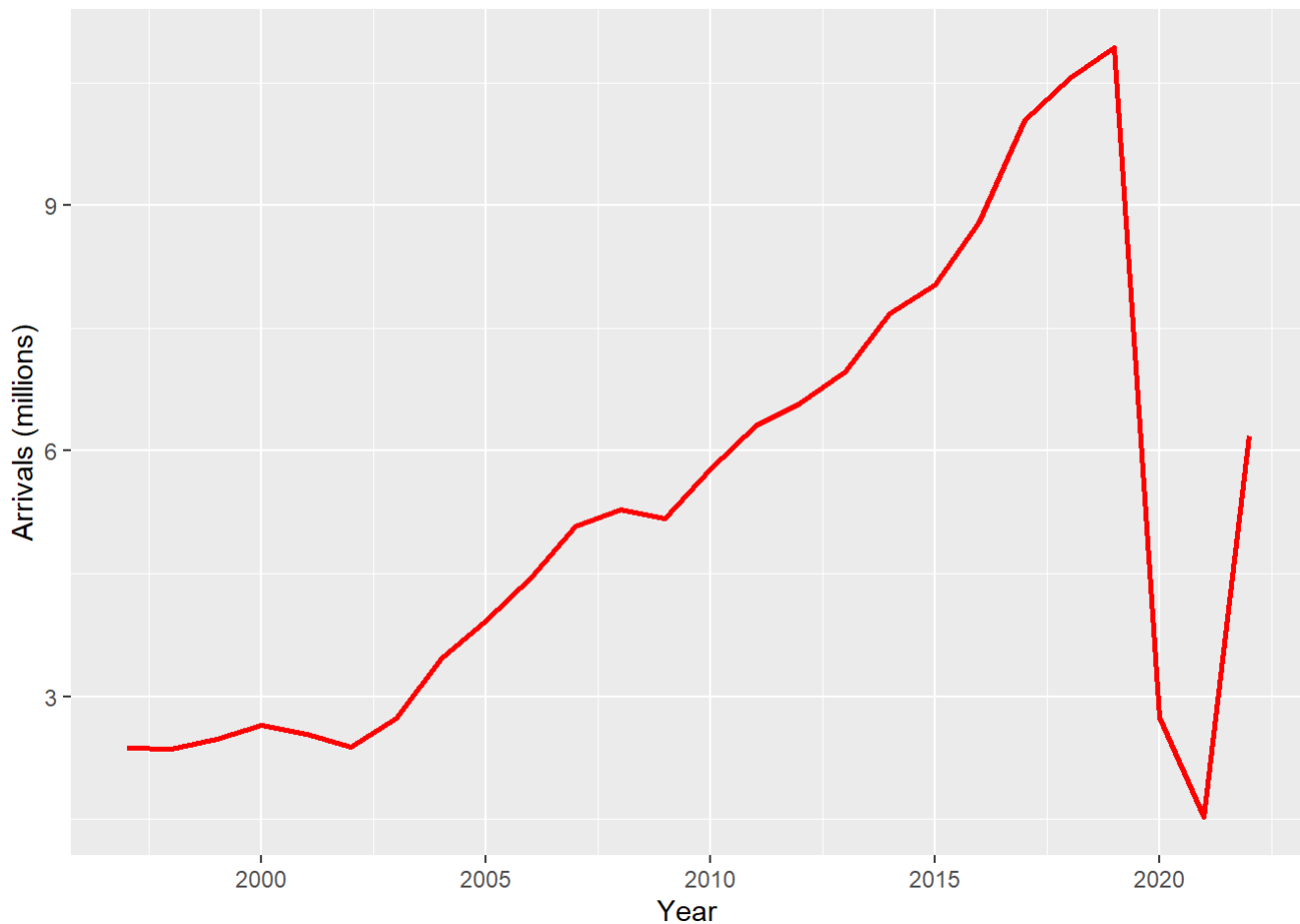
Year <int>	Arrivals (millions) <dbl>	% change <chr>
1997	2.37	3.8
1998	2.36	−0.7
1999	2.48	5.2
2000	2.65	6.7
2001	2.54	−4.2
2002	2.38	−6.0
2003	2.73	14.3
2004	3.46	26.8
2005	3.92	13.3
2006	4.45	13.5

1-10 of 26 rows

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## Data Visualization

The “Foreign tourist arrivals in India (1997–2022)” tab presents a line plot showing the trend in foreign tourist arrivals over the years.



## Insights

On an average the number of people Arrived (millions) (1997 - 2022)

```
## [1] 5.269231
```

we can see that in 2019 because of covid pandemic the number arrivals go down and after 2021 there is increment in number of arrivals

## Foreign exchange earnings from tourism in India (1997–2020)

Year	Earnings (US\$ million)	% change	Earnings (₹ crores)	% change
<int>	<chr>	<chr>	<chr>	<chr>
1997	2,889	2.0	10,511	4.6
1998	2,948	2.0	12,150	15.6
1999	3,009	2.1	12,951	6.6
2000	3,460	15	15,626	20.7
2001	3,198	-7.6	15,083	-3.5

Year	Earnings (US\$ million)	% change	Earnings (₹ crores)	% change
<int>	<chr>	<chr>	<chr>	<chr>
2002	3,103	-3.0	15,064	-0.1
2003	4,463	43.8	20,729	37.6
2004	6,170	38.2	27,944	34.8
2005	7,493	21.4	33,123	18.5
2006	8,634	15.2	39,025	17.8

1-10 of 24 rows

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3
Next

## Data Visualization

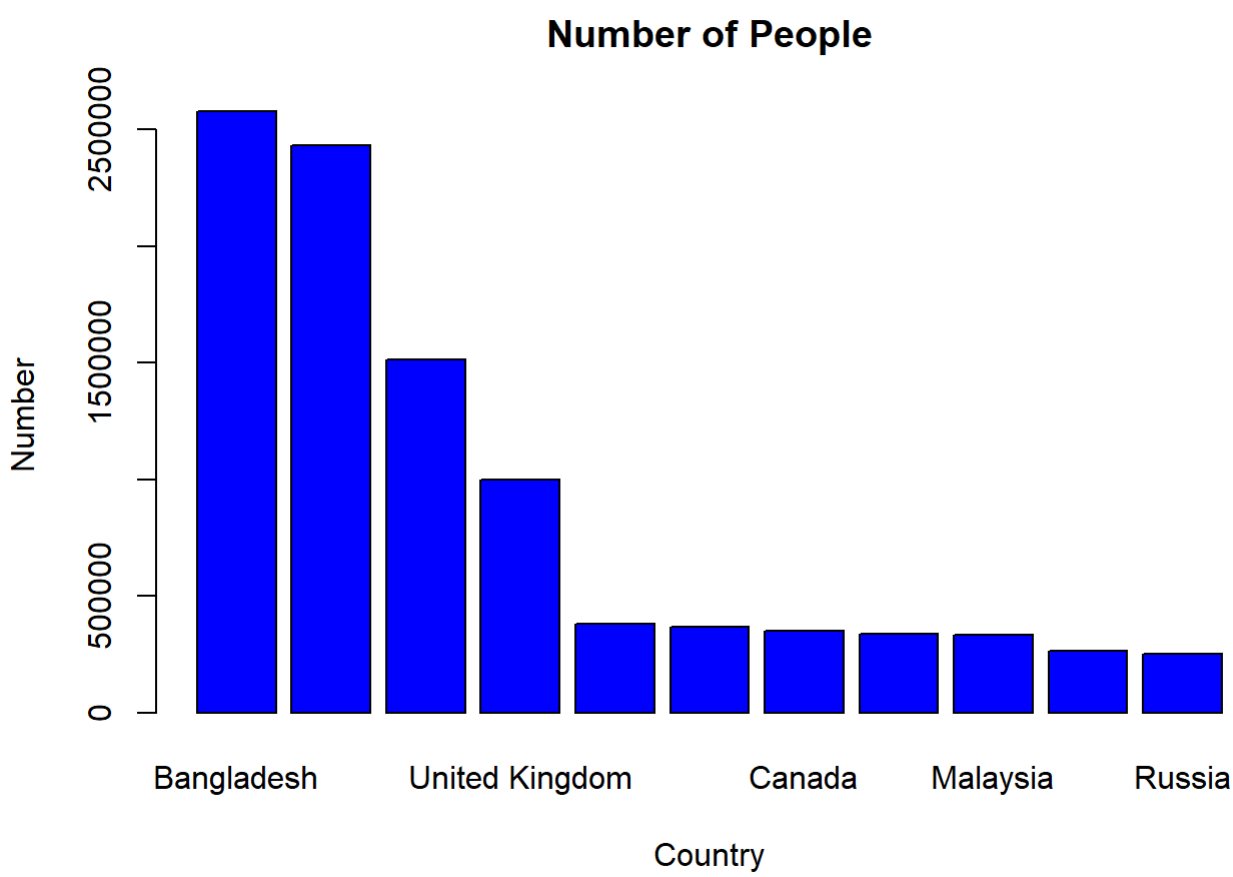
The “Foreign exchange earnings from tourism in India (1997–2020)” tab displays a bar chart showing earnings in Indian Rupees over the years.



Source countries for foreign tourist arrivals in India in 2019.

Rank<chr>	Country<chr>	Number<chr>	Share in %<dbl>
1	Bangladesh	2,577,727	23.58
2	European Union	2,430,002	21.12
3	United States	1,512,032	13.83
4	United Kingdom	1,000,292	9.15
5	Sri Lanka	380,121	3.38
6	Australia	367,241	3.36
7	Canada	351,859	3.22
8	China (mainland)	339,442	3.11
9	Malaysia	334,579	3.06
10	Germany	264,973	2.42
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# Data Visualization



# Insights

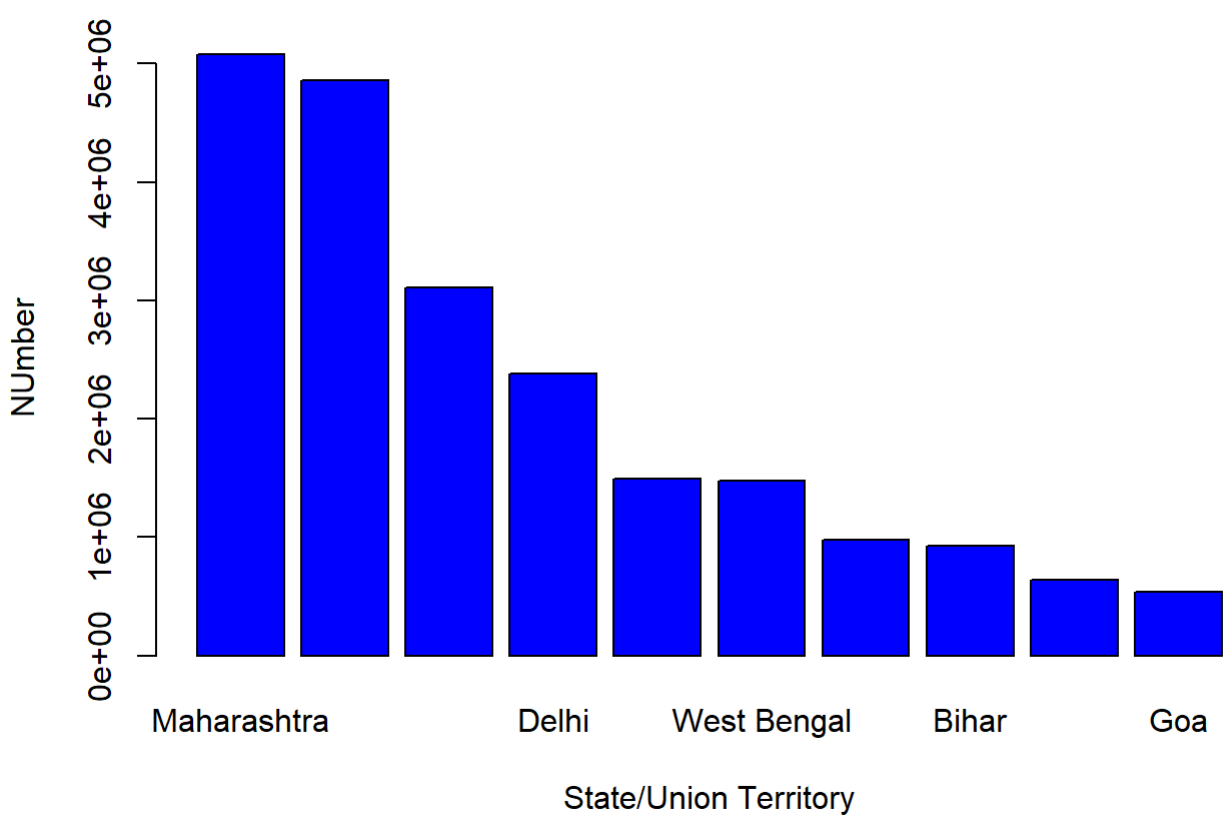
Bangladesh is the topmost country with 23.58 % share.

## Share of top 10 states/UTs of India in number of foreign tourist visits in 2017.

Rank<chr>	State/Union Territory<chr>	Number<chr>	Share in %<dbl>
1	Maharashtra	5,078,514	18.9
2	Tamil Nadu	4,860,455	18.1
3	Uttar Pradesh	3,104,062	13.3
4	Delhi	2,379,169	10.2
5	Rajasthan	1,489,500	6.4
6	West Bengal	1,475,311	6.3
7	Kerala	977,479	4.2
8	Bihar	923,737	4.0
9	Karnataka	636,502	2.7
10	Goa	541,480	2.3
1-10 of 13 rows		Previous	12Next

# Data Visualization

Share of top 10 states/UTs of India in number of foreign tourist visits in 2017



## Insights

Maharashtra of India is the topmost in number of foreign tourist visits with 18.9 %.

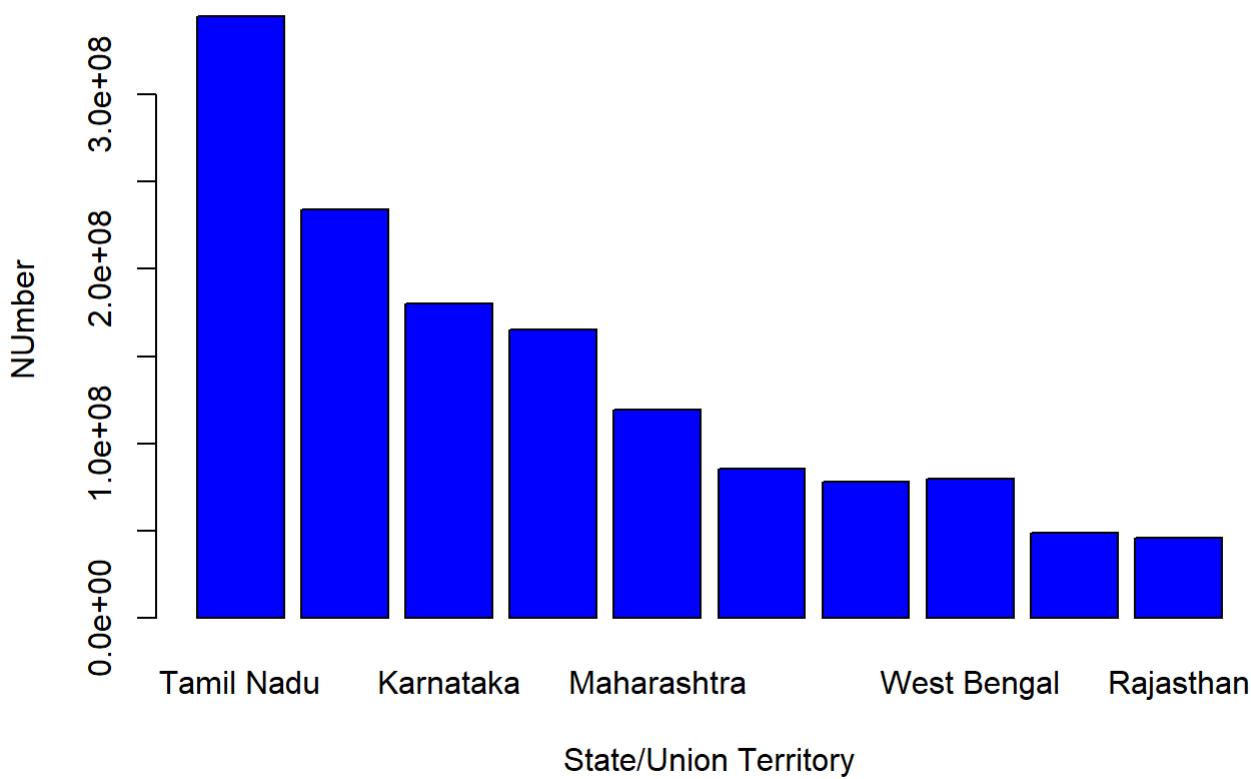
Share of top 10 states/UTs of India in number of domestic tourist visits in 2017.

Rank<chr>	State/Union Territory<chr>	Number<chr>	Share in %<dbl>
1	Tamil Nadu	345,061,140	20.9
2	Uttar Pradesh	233,977,619	14.2
3	Karnataka	179,980,191	10.9
4	Andhra Pradesh	165,433,898	10.0
5	Maharashtra	119,191,539	7.2
6	Telangana	85,266,596	5.2
7	Madhya Pradesh	78,038,522	4.7

Rank<chr>	State/Union Territory<chr>	Number<chr>	Share in %<dbl>
8	West Bengal	79,687,645	4.8
9	Gujarat	48,343,121	2.9
10	Rajasthan	45,916,573	2.8
1-10 of 13 rows		Previous	12Next

## Data Visualization

Share of top 10 states/UTs of India in number of domestic tourist visits in %



## Insights

Tamil Nadu of India is the topmost in number of domestic tourist visits with 20.9 %.

## Final Table

Place_to_Visit<chr>
Dal Lake in Srinagar



Place_to_Visit
<chr>
Sultanpur National Park in Gurgaon
Munshi Ghat in Varanasi
Bhangarh Fort, a very popular fort city in Alwar
Udaipur's City Palace
Boats on Naini Lake in Nainital city
Lotus Temple in Delhi
Pangong Tso lake in Ladakh
Tso Moriri in Ladakh
Golden Temple, Amritsar
1-10 of 82 rows   1-1 of 2 columns
Previous 1 2 3 4 5 6 ... 9 Next

# Main Parts of India

The “Main Parts of India” tab provides users with data related to different parts of India, including North, South, Central, West, East, and Northeast India. Users can select a specific region and view associated data.

## Scrapped Tables

### North India

Data_Type
<chr>
Dal Lake in Srinagar
Sultanpur National Park in Gurgaon
Munshi Ghat in Varanasi
Bhangarh Fort, a very popular fort city in Alwar
Udaipur's City Palace
Boats on Naini Lake in Nainital city
Lotus Temple in Delhi
Pangong Tso lake in Ladakh
Tso Moriri in Ladakh
Golden Temple, Amritsar
1-10 of 19 rows   1-1 of 3 columns
Previous 1 2 Next

# South India

Data_Type
<chr>
Tirupati temple
Madikeri or Coorg in Kodagu,Karnataka
Gandikota river valley in Andhra Pradesh
Ranipuram hills in Kerala
Houseboat in Kerala backwaters
Stone chariot in Hampi
Grasslands in Kudremukh National Park during Monsoon
Mysore Palace illuminated at night
Brihadeeswarar Temple at Thanjavur
Idukki Dam in Kerala
1-10 of 15 rows   1-1 of 3 columns
Previous 1 2 Next

# Central India

Data_Type
<chr>
Chitrakote Falls, the largest waterfalls in India at Jagdalpur
Marble Rocks in Bhedaghat
Dhuandhar Falls
Gwalior Fort, oldest fort in India
Mandwa Waterfalls
Rajwada Palace in Indore
Mahakal Lok corridor in Ujjain
Patalpani waterfalls near Indore
Boating club in Bhopal, The City of Lakes
Great Stupa at Sanchi near Bhopal
1-10 of 13 rows   1-1 of 3 columns
Previous 1 2 Next

# West India

Data_Type
<chr>
A Tigress at Pench Tiger Reserve
Statue of Unity
Kadiya Dhro in Rann of Kutch,Gujarat
Gokarna,Karnataka near Goa
Palolem Beach in Goa
Kaas Plateau , part of a UNESCO World Natural Heritage Site
Forts of Maharashtra are also called Green canyon of India
Lonar Lake, a notified National Geo-heritage Monument
Sai Baba temple in Shirdi
Alibag Sea beach in Maharashtra
1-10 of 17 rows   1-1 of 3 columns
Previous 1 2 Next

# East India

Data_Type
<chr>
View of Western Ghats in Lonavala
Konark Sun Temple in Odisha
Dolphins in Chilika Lake, Satpada
Krang Suri Waterfalls in Cherrapunji, Meghalaya
Rainbow waterfalls in Meghalaya
Wei Sawdong Falls in Cherrapunji, Meghalaya
Santiniketan, a UNESCO World Heritage Site
Bakkhali, West Bengal
Ancient Nalanda University
Umiam Lake, Meghalaya
1-10 of 14 rows   1-1 of 3 columns
Previous 1 2 Next

# NorthEast India

Data_Type
<chr>
Temple of the Vedic Planetarium
Goecha La in Sikkim
Kaziranga in Assam
Gangtok from Tibet-Road
M.G Marg in Gangtok
Loktak Lake in Manipur
Sela Pass in Arunachal Pradesh
7 rows   1-1 of 3 columns

# States/UT’s

India is a diverse country so every state/UT's has some beautiful places to vist.  
So we scrapped the top ten most favorable places to visit for each state.

# Scrapped Tables

# Andhra Pradesh

Data_Type
<chr>
Highest Man Made Stone Nandi
Rock-cut cave ruins at Ramatheerrtham in Vizianagaram district
Natural arch (water eroded) at Thotlakonda beach in Visakhapatnam
Bavikonda Buddhist Monastic ruins, Visakhapatnam
A far View of the Flagstaff Dutch cemetery at Bheemunipatnam beach
Novotel beach resort at Bheemunipatnam
R.K. Beach
Thimmamma Marrimanu is the largest, known tree in the world by area of canopy coverage.
Belum Caves
Borra Caves in Visakhapatnam district

# Bihar

Data_Type
<chr>
Darbhangha Fort in Darbhanga
Sunset at Gandhi Ghat in Patna
Deo Sun Temple in Aurangabad
Janaki Kund at Sitamarhi
Maha Bodhi Temple, Bodhgaya
Nalanda Mounds
Vikramshila
Old City Walls at Rajgir
Kesariya Stupa -kesariya- east champaran
Ashokan Pillar Vaishali
1-10 of 10 rows   1-1 of 2 columns

# Chattisgarh

Data_Type
<chr>
Chitrakot_waterfalls
Tirathgarh Falls, Bastar
Mandawa waterfall, Bastar, CG
Chitra-Dhara waterfall, Bastar
Narhara waterfall, Dhamtari
Ghata-rani waterfall Gariyaband
Baloda-bazar
Gumadpal Shiv temple, near Tirathgarh(towards Katekalyan road)
Singhaigudi Shiv temple
Devarli temple, Dodrepal, Bastar
1-10 of 10 rows   1-1 of 2 columns

# Gujarat

Data_Type
<chr>
Laxmi Vilas Palace
Hridaya Kunj in Sabarmati Ashram
Asiatic lion at Gir
Gira falls
Pavagath Hill in Panchmahal, Gujarat
Statue of Unity is the tallest statue in the world.
The Palitana temple complex
Ajrak
Somnath
Flamingoes
1-10 of 10 rows   1-1 of 2 columns

# Uttar Pradesh

Data_Type
<chr>
Triveni Sangam, Allahabaad
Taj_Mahal, Agra
Fatehpur Sikri
Prem_mandir
Agra Fort
Naini_Bridge,Allahabaad
Varanasiganga
Kumbhmela
Anand_Bhawan
Ashtapad Hastinapur
1-10 of 10 rows   1-1 of 2 columns

# Karnataka

Data_Type
<chr>
Gol Gumbaz Bijapur
Mallikarjuna and Kasivisvanatha temples at Pattadakal
Ravana Phadi cave at Aihole near Pattadakal
Cave temple 3 Badami
Brahma Jinalaya, Lakkundi
Someshwara temple at Lakshmeshwar, North Karnataka
Doddabasappa Temple at Dambal, Gadag district
Trikuteshwara Temple complex at Gadag
Galaganatha Galageshwara temple, Haveri District, North Karnataka
Panchakuta Basadi
1-10 of 10 rows   1-1 of 2 columns

# Jharkhand

Data_Type
<chr>
Pyramid shaped Shikhara of the temple, Baidyanath Temple
Jal Mandir at Shikharji, Parasnath
Chhinnamasta Temple of Rajrappa
Jagannath Temple of Ranchi
Dewri Temple
Rankini Temple of Jadugora
Sunset in Netarhat
View of shikharji from Parasnath
Jonha Falls
Dassam Falls
1-10 of 10 rows   1-1 of 2 columns

# Goa

Data_Type
<chr>
Goa_panoramio
Basilica of Bom Jesus
Mangueshi Temple
Fort Aguada
A Portuguese house in Fontainhas
Chapora River
Backwaters of Goa
Baga Beach in North Goa
Bogmalo beach in South Goa
Glassy Tiger
1-10 of 10 rows   1-1 of 2 columns

# Madhya Pradesh

Data_Type
<chr>
The Sanchi stupa
Bhedaghat Dhuandhar Falls, Jabalpur
Kandariya Mahadeva Temple, largest temple in Khajuraho
Sonagiri
Kundalpur Jain temples
Amarkantak, a Hindu Tirtha place, a site where three rivers
Bandhavgarh National Park
Bagh Caves
Dance Festivals in Madhya Pradesh
Tal_ul_Masjid, Bhopal
1-10 of 10 rows   1-1 of 2 columns



# Assam

Data_Type
<chr>
A rhino in Kaziranga National Park. The park is home to two-thirds of the world's great one-horned rhinoceroses.
Elephant safari in Kaziranga National Park
A scenic tea estate of Assam
Kamakhya Temple
Majuli island
Nameri national Park
Rang ghar pavilions
7 rows   1-1 of 2 columns

# West Bengal

Data_Type
<chr>
Darjeeling Himalayan Railway
Howrah Bridge
Acharya Jagadish Chandra Bose Indian Botanic Garden
Morgan House Kalimpong
Mandarmani Sea Beach
Chintamani Kar Bird Sanactuary Kolkata
Panthera tigris tigris
Gorumara National Park Panorama
baul singers
Sunderban
1-10 of 10 rows   1-1 of 2 columns

# Delhi

Data_Type
<chr>
Rashtrapati_Bhavan

Data_Type
<chr>
Qutub minar
Red Fort
Akshardham Temple
ISKCON Temple
Digambar Jain Lal Mandir
Gurudwara Bangla Sahib
Jama Masjid
Cathedral Church
National War Memorial
1-10 of 10 rows   1-1 of 2 columns

# Telangana

Data_Type
<chr>
Charminar
Warangal fort
Bhongir Fort
Jain temple warangal
Bhadrachalam Temple
Birla Temple
Mecca Masjid
Medak Cathedral
8 rows   1-1 of 2 columns

# Uttrakhand

Data_Type
<chr>
Badrinath Valley
Kedarnath
Gangotri temple

Data_Type
<chr>
Yamunotri temple and ashram
Kedarnath Temple
Tungnath temple
Rudranath temple
Madhyamaheshwar Temple
Kalpehswar
Nainital lake
1-10 of 10 rows   1-1 of 2 columns

# TamilNadu

Data_Type
<chr>
Marina Beach
Tamil Nadu Flag
south of Chenna
Madurai Meenakshi
Gangaikonda Cholapuram Temple Gopuram
Thiruvannamalai Annamalaiyar Temple
Hogenakkal Falls bathing area
Parisal Boating in Hogenakkal falls
Pichavaram Mangrove Forest
Amman Temple
1-10 of 10 rows   1-1 of 2 columns

# Kerala

Data_Type
<chr>
House Boat
Light house in Ponnani
Resort calicut kerala

Data_Type
<chr>
Kerala Houseboat
Kottappura Nileshwaram house
Munnar Hillscape
Sithar Kundu View Point
Lightmatter lion tailed macaque
The View of the Athirapally Falls during the onset of Monsoon
Sea From Bakel
1-10 of 10 rows   1-1 of 2 columns

# Rajasthan

Data_Type
<chr>
Udaipur Lake Palace
Hawa Mahal on a stormy afternoon
JagMandir
City Palace by lake Pichola
Mehrangarh Fort
AmberFort
Amer Fort
Jaisalmer forteresse
Ancient Temples Jaisalmer
Walls of Kumbhalgarh
1-10 of 10 rows   1-1 of 2 columns

# Odisha

Data_Type
<chr>
Konarak Sun Temple
Brahmeswar Temple Bhubaneswar
Mukteswar temple

Data_Type
<chr>
Lingaraj temple
Rajarani Temple
Chilika Lake
Barehipani Falls
Badaghagara Kendujhar
Khandhadhar Falls
Sanaghagara Kendujhar
1-10 of 10 rows   1-1 of 2 columns

# Maharastra

Data_Type
<chr>
Sydney point panchghani
Pandharpur Aashad panoramio
Sri Hazur Sahib Nanded
Statue Of Ahimsa MangiTungi
Bahubali Kumbhoj
Kailasha temple at ellora
Elephanta Caves
Ajanta
Pataleshwar Caves temple
Bibika
1-10 of 10 rows   1-1 of 2 columns

# Andaman & Nicobar

Data_Type
<chr>
CellularJail Wings
Gallows on Viper Island
Havelock Island

Data_Type
<chr>
India Tourism Elephant
Viper Island
Andaman ross
6 rows   1-1 of 2 columns

# Motorbike Tour

The “Motorbike Tour” tab offers information about motorcycle tours in India.

We scrapped data nearly 20 places to visit by motorbike from “<https://www.thrillophilia.com/motorcycle-tours-in-india> (<https://www.thrillophilia.com/motorcycle-tours-in-india>)”.

Make a table named my\_tibble which contains columns as :-

- Tour
- Description
- Common Route Taken
- Total Riding distance
- Best Riding Season

# Data Extraction and Preprocessing

Tour
<chr>
Manali to Leh Motorcycle Tour
Srinagar - Leh - Manali Motorcycle Expedition
Manali to Spiti Valley Bike Tour
Jaipur-Jodhpur-Jaisalmer Motorcycle Expedition
Leh Bike Tour
Jaipur-Udaipur-Mount Abu-Pushkar Motorcycle Expedition
Ahmedabad to Rann of Kutch
Delhi- Jaipur-Ranthambore Bike Tour
Sikkim Darjeeling Biking Tour
Guwahati to Tawang Bike Tour
1-10 of 20 rows   1-1 of 5 columns

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# Travel Monthwise

In the “Travel Monthwise” tab, users can select a specific month to get travel information.

We extraced data from “<https://www.tourism-of-india.com/travel-by-month.html> (<https://www.tourism-of-india.com/travel-by-month.html>)”.

## Data Extraction, Preprocessing Display

Months
<chr>
November
December
January
February
March
April
May
June
July
August
1-10 of 12 rows   1-1 of 2 columns
Previous 1 2 Next

## User Interface and Interaction

The Shiny app provides a user-friendly interface with interactive elements, including dropdown menus and data tables. Users can interact with the app to select the data they want to explore.

# Shiny App Code

```
ui <- fluidPage(
  tabsetPanel(
    tabPanel("Tables",
      titlePanel("Table and Graph"),
      sidebarLayout(
        sidebarPanel(
          selectInput("tableType", "Select Table Type:", choices = table_list),
        ),
        mainPanel(
          DTOutput("table"),
          plotOutput("plot")
        )
      )
    ),
    tabPanel("Main parts of India",
      titlePanel("Part Wise Tourist Place"),

      sidebarLayout(
        sidebarPanel(
          selectInput("N_S", "Select", choices = table2_list),

          uiOutput("data_type"),
          uiOutput("pictures")
        ),

        mainPanel(
          DTOutput("content")
        )
      )
    ),
    tabPanel("States",
      tabPanel("States",
        titlePanel("State Wise Tourist Place"),

        sidebarLayout(
          sidebarPanel(
            selectInput("rajya", "State/Union Territory", choices = State_list),

            uiOutput("data_type3"),
            uiOutput("pictures3")
          ),

          mainPanel(
            DTOutput("content3")
          )
        )
      )
    ),
    tabPanel("Motorbike Tour",
      titlePanel("Bike Tour Table"),
      mainPanel(
        DTOutput("myTable")
      )
    )
  )
)
```



```

    )),
  tabPanel("Travel Monthwise",
    titlePanel("Travel by Month in India"),
    sidebarLayout(
      sidebarPanel(
        selectInput("Month", "Select Month:", choices = Travel_by_Month_in_India$Month
s),
      ),
      mainPanel(
        textOutput("Description")
      )
    )
  ))
)
)

server <- function(input, output) {
  datasetInput1 <- reactive({
    switch(input$tableType,
      "Foreign tourist arrivals in India (1997-2022)." = table_1,
      "Foreign exchange earnings from tourism in India (1997-2020)." = table_2,
      "Source countries for foreign tourist arrivals in India in 2019." = table_3,
      "Share of top 10 states/UTs of India in number of foreign tourist visits in 2017." =
table_4,
      "Share of top 10 states/UTs of India in number of domestic tourist visits in 2017." =
table_5,
      "Scrapped_data_table" = final_table
    )
  })

  output$table <- renderDT({
    datatable(
      datasetInput1(),
      escape = FALSE
    )
  })

  output$plot <- renderPlot({
    data <- datasetInput1()

    if (identical(data, table_1)) {
      ggplot(data = data) +
        geom_line(mapping = aes(x = Year, y = `Arrivals (millions)`), linetype = 1, linewidth =
1, color = "red")
    } else if (identical(data, table_2)) {

      # Assuming your data is in a tibble named table_2
      data$`Earnings (₹ crores)` <- as.numeric(gsub(",", "", gsub("-", "-.", data$`Earnings (₹ cr
ores)`)))
      # Create a bar plot

```

```

    barplot(data$`Earnings (₹ crores)`, names.arg = data$Year, col = "blue", main = "Earnings
Over the Years",
            xlab = "Year", ylab = "Earnings in ₹ Crores")

} else if (identical(data, table_3)) {

    data <- data[-c(12),]

    # Assuming your data is in a tibble named table_2
    data$Number <- as.numeric(gsub(",", "", data$Number))
    barplot(data$Number, names.arg = data$Country, col = "blue", main = "Number of People",
            xlab = "Country", ylab = "Number")

} else if (identical(data, table_4)) {

    data <- data[c(1:10),]

    # Assuming your data is in a tibble named table_2
    data$Number <- as.numeric(gsub(",", "", data$Number))
    barplot(data$Number, names.arg = data$`State/Union Territory`, col = "blue", main = "Share
of top 10 states/UTs of India in number of foreign tourist visits in 2017",
            xlab = "State/Union Territory", ylab = "NUmber")

} else if (identical(data, table_5)) {

    data <- data[c(1:10),]

    # Assuming your data is in a tibble named table_2
    data$Number <- as.numeric(gsub(",", "", data$Number))
    barplot(data$Number, names.arg = data$`State/Union Territory`, col = "blue", main = "Share
of top 10 states/UTs of India in number of domestic tourist visits in 2017",
            xlab = "State/Union Territory", ylab = "NUmber")

}
})

datasetInput <- reactive({
  switch(input$N_S,
    "North_India" = North_India,
    "South_India" = South_India,
    "Central_India" = Central_India,
    "West_India" = West_India,
    "East_India" = East_India,
    "NorthEast_India" = NorthEast_India
  )
})

output$data_type <- renderUI({
  data <- datasetInput()
  selectInput("data_type", "Please Select", choices = data$Data_Type)
})

```

```

output$pictures <- renderUI({
  data <- datasetInput()
  pictures_url <- data[data$Data_Type == input$data_type, "Picture_URL"]

  if (is.null(pictures_url) || length(pictures_url) == 0) {
    return(NULL)
  }

  pictures <- lapply(pictures_url, function(url) {
    tags$img(src = url)
  })

  div(pictures)
})

output$content <- renderDT({
  data <- datasetInput()
  datatable(data)
})

output$Description <- renderText({
  if (input$Month == "November")
  {
    Travel_by_Month_in_India$Description[1]
  } else if (input$Month == "December")
  {
    Travel_by_Month_in_India$Description[2]
  } else if (input$Month == "January")
  {
    Travel_by_Month_in_India$Description[3]
  } else if (input$Month == "February")
  {
    Travel_by_Month_in_India$Description[4]
  } else if (input$Month == "February")
  {
    Travel_by_Month_in_India$Description[4]
  } else if (input$Month == "March")
  {
    Travel_by_Month_in_India$Description[5]
  } else if (input$Month == "April")
  {
    Travel_by_Month_in_India$Description[6]
  } else if (input$Month == "May")
  {
    Travel_by_Month_in_India$Description[7]
  } else if (input$Month == "June")
  {
    Travel_by_Month_in_India$Description[8]
  } else if (input$Month == "July")
  {
    Travel_by_Month_in_India$Description[9]
  } else if (input$Month == "August")

```

```

{
  Travel_by_Month_in_India$Description[10]
} else if (input$Month == "September")
{
  Travel_by_Month_in_India$Description[11]
} else if (input$Month == "October")
{
  Travel_by_Month_in_India$Description[12]
}
})

output$myTable <- renderDT({
  datatable(my_tibble)
})

datasetInput3 <- reactive({
  switch(input$rajya,
    "Andhra_Pradesh" = Andhra_Pradesh,
    "Bihar" = Bihar,
    "chattisgarh" = chattisgarh,
    "Gujarat" = Gujarat,
    "Uttar_pradesh" = Uttar_pradesh,
    "Karnataka" = Karnataka,
    "Jharkhand" = Jharkhand,
    "Goa" = Goa,
    "Madhya_Pradesh" = Madhya_Pradesh,
    "Assam" = Assam,
    "West_bengal"=West_bengal,
    "Delhi"=Delhi,
    "Telangana"=Telangana,
    "Uttrakhand"=Uttrakhand,
    "TamilNadu"=TamilNadu,
    "Kerala"=Kerala,
    "Rajasthan"=Rajasthan,
    "Odisha"=Odisha,
    "Maharastra"=Maharastra,
    "Andaman_and_Nicobar"=Andaman_and_Nicobar

  )
})

output$data_type3 <- renderUI({
  data <- datasetInput3()
  selectInput("data_type3", "Select the tour place", choices = data$Data_Type)
})

output$pictures3 <- renderUI({
  data <- datasetInput3()
  pictures_url3 <- data[data$Data_Type == input$data_type3, "Picture_URL"]

```

```

if (is.null(pictures_url3) || length(pictures_url3) == 0) {
  return(NULL)
}

pictures3 <- lapply(pictures_url3, function(url) {
  tags$img(src = url)
})

div(pictures3)
})

output$content3 <- renderDT({
  data <- datasetInput3()
  datatable(data)
})

}

shinyApp(ui = conve)

```

Shiny applications not supported in static R Markdown documents

## Questions

1. What are the current trends in tourism in India?
2. How “Tourism in India” contributes to the economic growth in India?
3. What is the role of technology in enhancing the tourist experience in India?

4. How can language barriers be managed for tourists visiting from non-English speaking countries?
5. What are the cultural sensitivities and customs that need to be considered when promoting tourism in India?
6. What are the environmental impacts of increased tourism in India and how can they be mitigated?
7. What are the limitations in terms of availability and affordability of accommodation for tourists in India?
8. How can the issue of over tourism in certain Indian destinations be managed?
9. How does the security issues impact tourism in India and what measures are in place to insure the safety of Tourists?
10. How does the global pandemic affect the tourism industry in India?
11. How can infrastructure and transportation be improved to handle the influx of tourists in popular Indian destinations?
12. What are the roles of different stakeholders, including government, private sector, and local communities, in shaping Indian tourism?
13. How do political and social issues affect the tourism industry in India?

## Challenges and Limitations

Challenges faced during app development and discuss potential limitations.

The data is too much nasty for Web Scrapping. Most of the time the name of the variables are not same so we have to set the variable names carefully.

Numerical dataset is not available so we are not able to do data analysis sufficiently.

## Conclusion

Summarizing the main points of the report and emphasize the importance of the “Tourism in India” Shiny app.

Our main objective is to show the top ten most favorable places in states and main parts of India.

We also scrape some tables that can explain the tourism more in India.

The following tables are:-

Foreign tourist arrivals in India (1997–2022).

Foreign exchange earnings from tourism in India (1997–2020).

Source countries for foreign tourist arrivals in India in 2019.

Share of top 10 states/UT's of India in number of foreign tourist visits in 2017.

Share of top 10 states/UT's of India in number of domestic tourist visits in 2017.

States Table

Main Parts of India(North,South,Central,East,West,North East)

We also add description on the final table. If you want travel any place then you just click on Details to see the Description of that place.

We also scrap data related to Motorbike Tour which is most famous among the youngster.

If you want to travel Month wise in India you just select the month and the description will be seen.

Finally we try to make an app that is user friendly and easy to explain all the things related to Tourism(one of them is top ten most favorable places.)

## Future Work

Provide suggestions for future improvements or additional features that can enhance the app.

We also want to add the description of the place below the photo make our shiny app more attractive and useful for enthusiastic tourists.

## References

It utilizes data obtained from web sources such as Wikipedia

("https://en.wikipedia.org/wiki/Tourism\_in\_India (https://en.wikipedia.org/wiki/Tourism\_in\_India)"),

("https://www.tourism-of-india.com/travel-by-month.html (https://www.tourism-of-india.com/travel-by-month.html)"),

("https://www.thrillophilia.com/motorcycle-tours-in-india (https://www.thrillophilia.com/motorcycle-tours-in-india)"),

("https://www.tourism-of-india.com/travel-by-month.html (https://www.tourism-of-india.com/travel-by-month.html)").

The app makes use of several R packages, including `shiny`, `rvest`, `dplyr`, `ggplot2`, and `DT`.

# THANK YOU