

GDP of India from 2017 - 2022

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PROJECT SPECIFICATION

- R Studio version 1.2.5033

HARDWARE SPECIFICATIONS

- Microsoft® Windows® 7/8/10 (32- or 64-bit)
- 3 GB RAM minimum, 8 GB RAM recommended;
- 2 GB of available disk space minimum
- core processor of i3 minimum or above.

DATASET

- StateGDP.xlsx

PACKAGES REQUIRED:

- ggplot2
- dplyr
- readxl
- tidyr

DATASET OF GDP OF INDIAN STATES

GDP Of India - RStudio

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```
1 # StateGDP.R
2
3 # Install and load necessary packages
4 install.packages(c("ggplot2", "dplyr", "readxl"))
5 library(ggplot2)
6 library(dplyr)
7 library(readxl)
8
9 print(gdp_data, n = 28)
10
11 # Read GDP data from Excel
12 gdp_data <- read_excel("D:/My Projects/GDP of India/GDP of India/StateGDP.xlsx")
13
14 # Reshape the data
15 gdp_data_long <- gdp_data %>%
16   pivot_longer(cols = starts_with("20"), names_to = "Year", values_to = "GDP") %>%
17   mutate(GDP = gsub(",", "", GDP) %>% as.numeric())
18
19 # Create the bar chart
20 bar_chart <- ggplot(data = gdp_data_long, aes(x = State, y = GDP, fill = Year)) +
21   geom_bar(stat = "identity", position = "dodge") +
22   labs(title = "Bar chart of GDP by Year and State (2017-2022)",
23        x = "State", y = "GDP")
24
25 # Save the bar chart as a PDF
26 ggsave("D:/My Projects/GDP of India/GDP of India/StateGDP_bar_chart.pdf", bar_chart)
```

Environment History Connections Tutorial

R Global Environment

Data

- bar_chart List of 9
- data 5 obs. of 6 variables
- data_long 25 obs. of 3 variables
- gdp_data 28 obs. of 6 variables
- gdp_data_long 25 obs. of 3 variables
- pie_chart List of 9
- pie_chart_top_5 List of 9
- stacked_area_chart List of 9
- top_5_states 5 obs. of 6 variables

Values

- excel_file "D:/My Projects/State GDP/State GDP/StateGDP.xlsx"

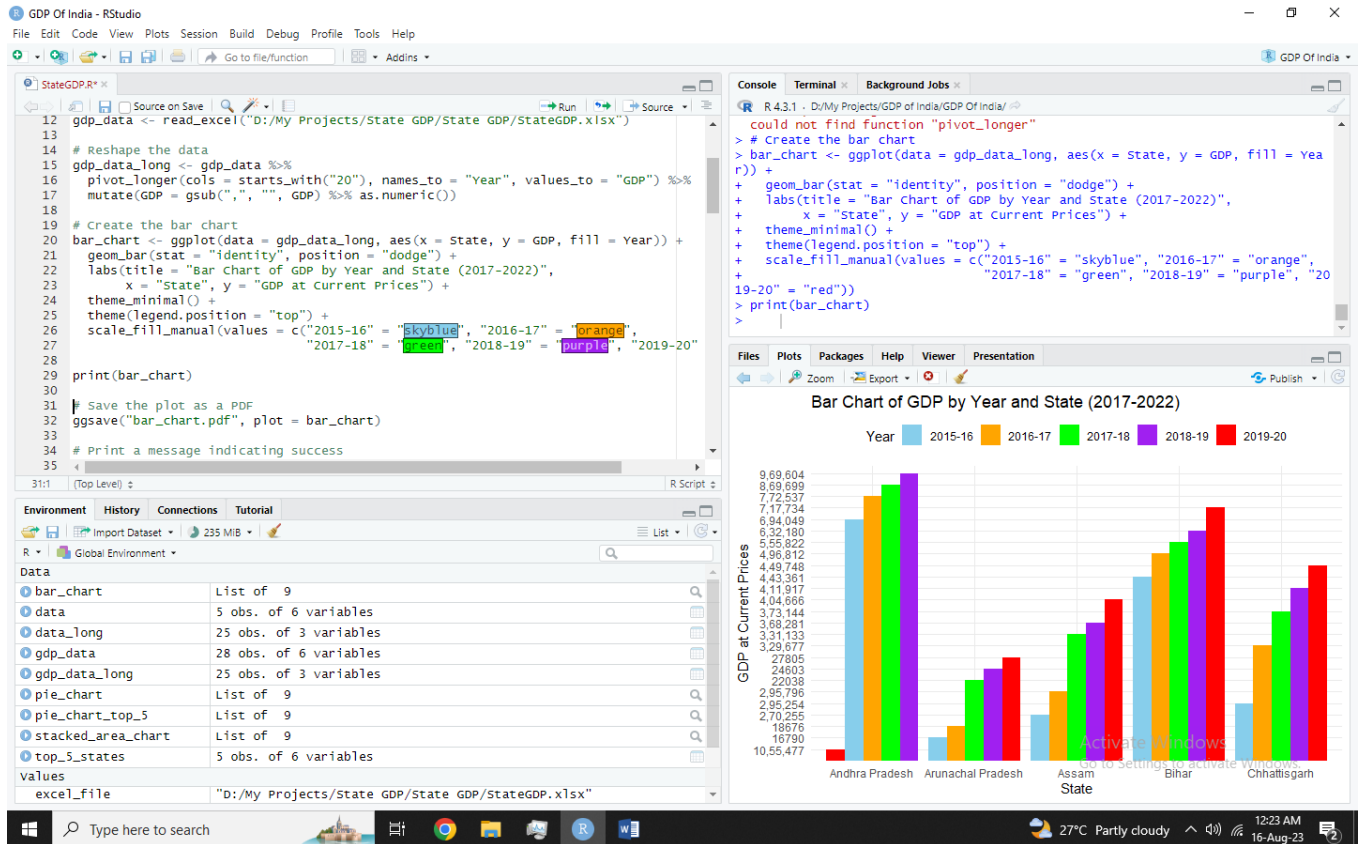
Console

```
R 4.3.1 - D:/My Projects/GDP of India/GDP of India/
> print(gdp_data, n = 28)
# A tibble: 28 x 6
  State      `2017-2018` `2018-2019` `2019-2020` `2020-2021` `2021-2022`
  <chr>      <chr>      <chr>      <chr>      <chr>
1 Andhra Prade... 6,94,049 7,72,537 8,69,699 9,69,604 10,55,477
2 Arunachal Pr... 16790 18676 22038 24603 27805
3 Assam 2,70,255 2,95,796 3,31,133 3,68,281 4,04,666
4 Bihar 4,43,361 4,96,812 5,55,822 6,32,180 7,17,734
5 Chhattisgarh 2,95,254 3,29,677 3,73,144 4,11,917 4,49,748
6 Goa 63119 70493 80449 89068 95977
7 Gujarat 10,09,041 11,15,275 12,54,297 14,11,817 15,53,095
8 Haryana 5,03,509 5,64,961 6,40,692 7,16,712 7,85,763
9 Himachal Pra... 1,42,651 1,53,845 1,70,823 1,88,285 2,07,113
10 Jharkhand 2,12,807 2,29,596 2,51,925 2,77,945 3,08,244
11 Karnataka 12,54,592 13,89,343 15,35,658 17,55,506 18,91,376
12 Kerala 5,77,745 6,33,025 7,23,554 7,97,122 8,42,440
13 Madhya Prade... 7,22,363 8,08,242 8,97,276 10,09,729 11,05,546
14 Maharashtra 21,97,672 24,67,765 27,14,408 30,69,054 32,24,086
15 Manipur 19199 20673 22705 25462 27952
16 Meghalaya 9235 10270 11646 13146 15496
17 Mizoram 7537 8661 9982 11573 13477
18 Nagaland 13023 14292 16235 18680 21579
19 Odisha 3,58,663 4,02,315 4,53,267 5,08,684 5,55,266
20 Punjab 4,49,316 4,86,678 5,41,864 6,07,062 6,54,129
21 Rajasthan 7,46,445 8,19,316 9,02,587 10,23,989 11,35,079
22 Sikkim 14781 16150 18049 20017 21609
23 Tamil Nadu 13,39,812 14,80,262 16,33,270 18,49,166 19,67,113
24 Telangana 6,47,482 7,07,677 8,00,489 8,97,809 10,09,870
25 Tripura 19875 22113 24775 27662 30265
26 Uttar Pradesh 12,36,109 13,60,782 15,12,898 17,14,102 18,88,967
27 Uttarakhand 1,81,631 2,03,182 2,28,705 2,57,882 2,86,818
28 West Bengal 9,20,977 10,17,423 11,19,179 12,36,978 13,75,670
```

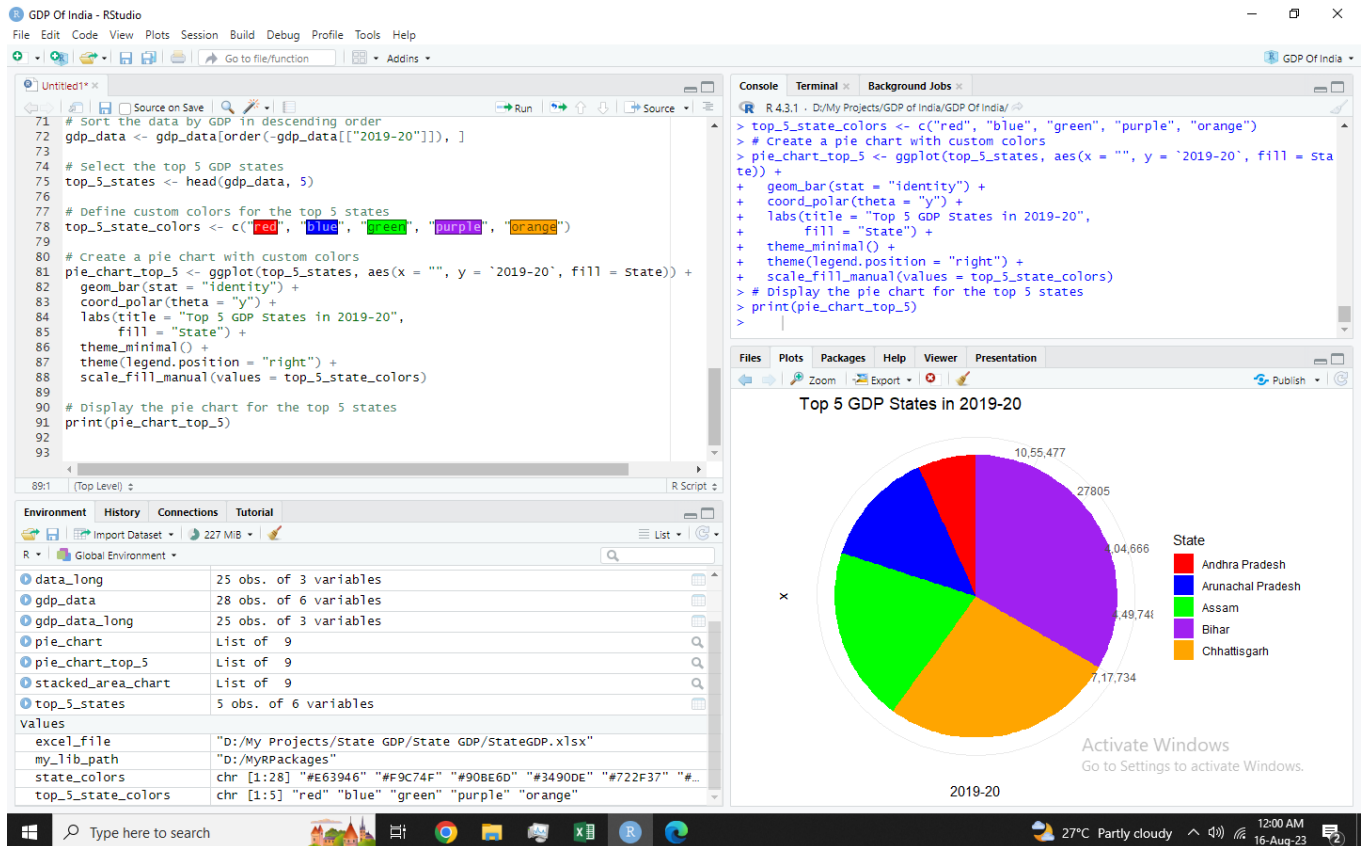
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BAR CHART OF GDP BY YEAR AND STATE (2017-2022)



TOP 5 GDP STATES IN 2019 – 2020



GDP OF STATES IN 2021 - 2022

