

Prime Minister Tutorial*

Krishiv Jain

February 4, 2024

1 Data Source

The source of the data is Wikipedia. Wikipedia has a list of Prime Ministers for almost every nation, including India. This list includes a variety of metrics, such as their term in office, their political party, and the head of state during their term. Jawaharlal Nehru was the first and longest-serving prime minister. Indira Gandhi was the only woman to hold the position. Manmohan Singh was the first prime minister from a minority religion. The current prime minister is Narendra Modi. The data source can be used to learn about the history of the prime ministers of India. It can also be used to compare and contrast different prime ministers. Additionally, the data source can be used to study the trends in Indian politics. For our purpose, we are concerned with their lifespan.

2 Data Gathering

The data was downloaded, cleaned, and analyzed using the statistical programming language R (R Core Team 2024). The following packages were also used: janitor (Sam Firke 2023), here (**citehere?**), tidyverse (Wickham et al. 2019), rvest (Wickham 2023), xlm2 (Wickham, Hester, and Ooms 2023), dplyr (Hadley Wickham 2023), tibble (Kirill Müller 2023). The majority of the code was from Telling Stories with Data (Alexander 2023).

Table 1: Sample of Cleaned Data

name	born	died	Age at Death
Jawaharlal Nehru	1889	1964	75
Gulzarilal Nanda	1898	1998	100

*Code and data are available at: <https://github.com/Krishiv-J/STA302-Mini-essay-5a.git>

Table 1: Sample of Cleaned Data

name	born	died	Age at Death
Lal Bahadur Shastri	1904	1966	62
Indira Gandhi	1917	1984	67
Morarji Desai	1896	1995	99
Charan Singh	1902	1987	85
Rajiv Gandhi	1944	1991	47
Vishwanath Pratap Singh	1931	2008	77
Chandra Shekhar	1927	2007	80
P. V. Narasimha Rao	1921	2004	83

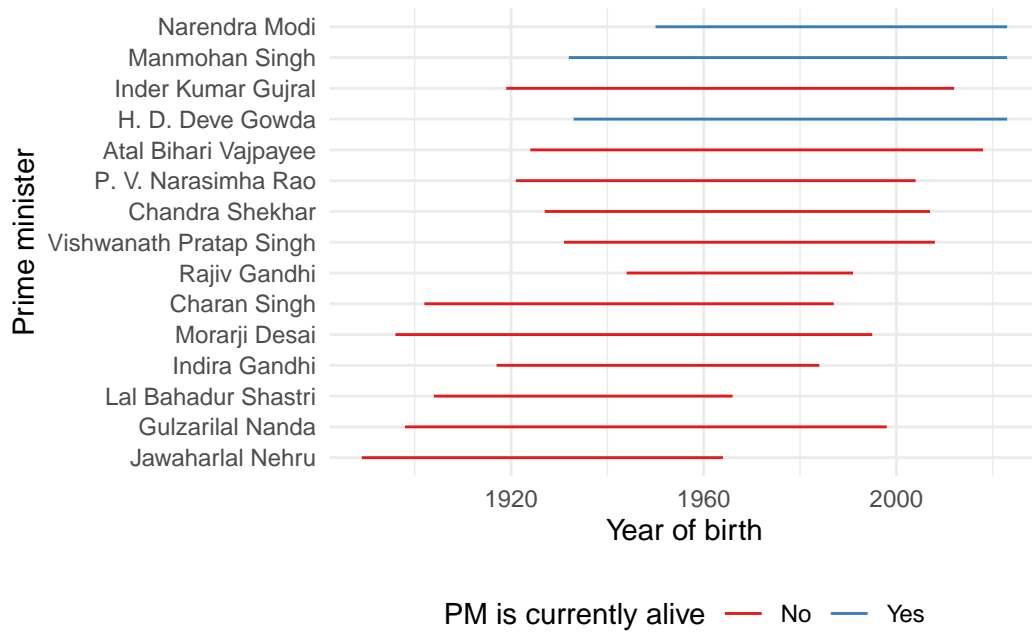


Figure 1: Lifespan of each Indian Prime Minister

The `echo: false` option disables the printing of code (only output is displayed).

References

- Alexander, Rohan. 2023. *Telling Stories with Data*. <https://tellingstorieswithdata.com/>.
- Hadley Wickham, Lionel Henry, Romain François. 2023. *Dplyr: A Grammar of Data Manipulation*. <https://CRAN.R-project.org/package=dplyr>.
- Kirill Müller, Romain François, Hadley Wickham. 2023. *Tibble: Simple Data Frames*. <https://CRAN.R-project.org/package=tibble>.
- R Core Team. 2024. *R: A Language and Environment for Statistical Computing*. Vienna, Austria: R Foundation for Statistical Computing. <https://www.R-project.org/>.
- Sam Firke, Chris Haid, Bill Denney. 2023. *Janitor: Simple Tools for Examining and Cleaning Dirty Data*. <https://CRAN.R-project.org/package=janitor>.
- Wickham, Hadley. 2023. *Rvest: Easily Harvest (Scrape) Web Pages*.
- Wickham, Hadley, Mara Averick, Jennifer Bryan, Winston Chang, Lucy D’Agostino McGowan, Romain François, Garrett Golemund, et al. 2019. “Welcome to the Tidyverse.” *Journal of Open Source Software* 4 (43): 1686. <https://doi.org/10.21105/joss.01686>.
- Wickham, Hadley, Jim Hester, and Jeroen Ooms. 2023. *Xml2: Parse XML*. <https://xml2.r-lib.org/>.