

Chief Ministers Of India Codebook 1.1

<https://github.com/tcpd/cm-data-release>

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Contents

Title	Page
1. Introduction	2
2. Terms and Conditions	3
3. Table 1: Variable names, type, and labels	4
4. Table 2: Primary Data Sources	8
5. Table 3: Secondary Data Sources	11
6. Documentation Process	18
7. Exceptions	20

1. Introduction

This dataset contains information on the Chief Ministers of the states of India. The data has been carefully extracted and verified from official government websites which documents their names and tenure dates. Where official government sources proved insufficient, data was extracted from credible and verifiable news sources published by reputed and trustworthy media organisations. See Table 2 for primary data sources and Table 3 for secondary data sources.

We table it in an orderly manner, to systematically place the information under variables such as name of the candidates, state/UT, start date of appointment, end date of appointment, days in office, delay in appointment, Appointment year, Assembly number, Constituency number, Constituency name, Poll number, pid, Name as in the TCPD dataset and the method used to match the data. The data also mentions the sources of information for each instance captured, so that users can verify the same.

We have provided the documentation process in the following sections which lists the various sources and how they were used to populate the data. Moreover, we have also listed detailed exceptions that we came across while populating and checking the dataset, clarifying the assumptions we have made.

2. Terms and Conditions

The Chief Ministers of India dataset is a list of all Chief Ministers of Indian states starting 1962 and ending 2022. The users are free to download, display or include the data in other products for non-commercial purposes at no cost subject to the following limitations:

Data Citation: "TCPD Chief Ministers of India Dataset (TCPD-CMID), 1962-current". Trivedi Centre for Political Data, Ashoka University.

Codebook Citation: Ananay Agarwal, Neelesh Agrawal, Prachi Arya, Mohit Kumar, Omkar Mishra, and Basim U Nissa. 2021. "TCPD Chief Ministers of India Dataset (TCPD-CMID), 1962-current Codebook", Trivedi Centre for Political Data, Ashoka University.

No Endorsement: The user must not claim or imply that the Trivedi Centre for Political Data endorses the user's use of the data or use of the Centre's logo(s) or trademarks(s) in conjunction with the same.

No Warranty: The Centre makes no warranties with respect to the accuracy of the data. While we do our best to ensure that the numbers are accurate, there is room for error. And as such the user must agree that the Centre shall not be held responsible or liable to the user for any errors, omissions, misstatements and/or misrepresentations of the data though the user is encouraged to report the same to us ([send us a message](#) or write us at tcpd-contact@ashoka.edu.in).

Personal data: The Centre may record visits to the TCPD website without collecting the personal information of the users. The records shall be used for statistical reports only.

Acknowledgement: The user must agree that the use of the Data presented within the application can be seen as the acknowledgement of unconditionally accepting the Terms of Use presented by the Centre.

3. Table 1: Variable names, type, and labels

No.	Variable Name	Variable Type	Variable Description
1	State_Name	string	<p>Name of the state. The states covered are:</p> <ol style="list-style-type: none"> 1. Andhra_Pradesh 2. Arunachal_Pradesh 3. Assam 4. Goa 5. Gujarat 6. Haryana 7. Jammu_&_Kashmir 8. Karnataka 9. Kerala 10. Madhya_Pradesh 11. Meghalaya 12. Mizoram 13. Nagaland 14. Odisha 15. Rajasthan 16. Sikkim 17. Tamil_Nadu 18. Tripura 19. Uttar_Pradesh 20. Uttarakhand
2	Assembly_No	numeric	<p>The term of the assembly in which they were appointed. This corresponds to the assembly numbers as in TCPD-IED. This value is -1 in case of President's Rule. This value is 0 in cases where the state was newly formed. For example, Capt. W.A. Sangma was a caretaker CM for Meghalaya when the state was formed until the elections to the Meghalaya state assembly were held, and hence there</p>

			is an assembly number of 0 for his tenure from 02-04-1970 to 18-03-1972.
3	Sequence_No	numeric	This is a number unique to each CM during an assembly term. For instance, if there are 3 CMs during assembly 4, the sequence for each will be 1, 2, 3 respectively. Thus, the combination of "State_Name", "Assembly_No" and "Sequence_No" is a unique identifier or key for this dataset.
4	pid_CM	numeric	This is a unique identifier for a CM across tenures.
5	No_Terms_as_CM	numeric	Number of times this person has been the CM until and including the given tenure.
6	Name	string	Name of the Chief Minister (CM). In case of administrative rule, it is mentioned as "President's Rule".
7	Start_Date	date	Date of notification of beginning of appointment. The format is: yyyy-mm-dd
8	End_Date	date	Date of notification of the end of appointment. The format is: yyyy-mm-dd
9	Days_in_Office	numeric	Duration of holding the office. in days. For current CMs, this is calculated till 2022-04-05.
10	Appointment_Delay	numeric	Duration from the end date of the previous office holder to the start date of the next appointed CM.
11	Administrative_Rule	logical	Indicator for President's Rule or Governor's Rule. The latter applies only in the case of Jammu and Kashmir.
12	MLC	logical	Indicates if the CM was a part of the State Legislative Council instead of the State Legislative Assembly

13	Caretaker_CM	logical	Indicates if the CM was a "caretaker CM", i.e., held the CM position without being a member of a state legislative house. For example, Capt. W.A. Sangma was appointed as a caretaker CM for Meghalaya when the state was formed until the elections to the Meghalaya state assembly were held.
14	Constituency_No	numeric	The number of the constituency from which the CM contested and won the election. This is NA if the CM was an MLC or caretaker CM, or if there was President's Rule.
15	Poll_No	numeric	This is an indicator whether the election was a bye-poll where: <ul style="list-style-type: none"> 1. 0 = a general election 2. 1 = 1st bye-poll 3. 2 = 2nd bye-poll, and so on. This is NA if the CM was an MLC or caretaker CM, or if there was President's Rule.
16	Position	numeric	The Position they secured in the elections for their constituency. This would typically be 1. This is NA if the CM was an MLC or caretaker CM, or if there was President's Rule.
17	Constituency_Name	string	The name of the constituency from which the CM contested and won the election. This is NA if the CM was an MLC or caretaker CM, or if there was President's Rule.
18	pid_IED	alphanumeric	This is a unique politician identifier for an assembly candidate assigned by TCPD-IED. This is NA if the CM was an MLC or caretaker CM, or if there was

			President's Rule, or in case this value is not yet filled in the TCPD-IED.
19	Party	string	Abbreviation of the party that the candidate contested the election from. This is NA if the CM was an MLC or caretaker CM, or if there was President's Rule.
20	No_Terms_as_MLA	numeric	Number of contests won by the CM in the state legislative assembly at the time of this election. This is NA if the CM was an MLC or caretaker CM, or if there was President's Rule, or in case this value is not yet filled in the TCPD-IED.
21	Turncoat	logical	Indicates if the CM switched parties from the previous election. This is NA if the CM was an MLC or caretaker CM, or if there was President's Rule, or in case this value is not yet filled in the TCPD-IED.
22	Incumbent	logical	Indicates if the CM was a sitting MLA during this election. This is NA if the CM was an MLC or caretaker CM, or if there was President's Rule, or in case this value is not yet filled in the TCPD-IED.
23	Recontest	logical	Indicates if the CM contested in the previous election. This is NA if the CM was an MLC or caretaker CM, or if there was President's Rule, or in case this value is not yet filled in the TCPD-IED.

4. Table 2: Primary Data Sources

These were the primary sources used to fill in CM names and tenure.

No.	State/UT	Source
1	Andhra Pradesh	http://ipr.ap.nic.in/release/ap_cms.asp
		http://www.arunachalipr.gov.in/?page_id=329 https://www.thehindu.com/news/national/other-states/former-arunachal-cm-jarbom-gamlin-passes-away/article6651177.ece http://arunachalgovernor.nic.in/images/events/2011/111101_Swearing.jpg http://arunachalgovernor.nic.in/images/events/2014/140518%20Swearing%20in%201.jpg http://arunachalgovernor.gov.in/pr/2016/160716_Chief_Minister_meets_Governor_and_tenders_resignation.pdf https://www.thehindu.com/news/national/other-states/Arunachal-political-crisis-A-timeline/article14983750.ece http://arunachalgovernor.nic.in/images/events/2016/160717_Swearing_in_Chief_Minister_5.jpg http://arunachalgovernor.nic.in/images/events/2019/190526%20CM%20tenders%20resignation%20(1).jpg
2	Arunachal Pradesh	http://ddnews.gov.in/national/ps-tamang-sworn-sikkim-cm-pema-khandu-take-oath-arunachal-cm-29-may
		http://assamassembly.gov.in/cm-list.html https://pib.gov.in/PressReleaseDetailm.aspx?PRID=1717387 https://www.hindustantimes.com/mumbai/sarbananda-sonowal-sworn-in-as-assam-s-first-bjp-chief-minister/story-shBAlsXrhQ4ov4CU8960PL.html https://www.aninews.in/news/national/general-news/sarbananda-sonowal-tenders-his-resignation-as-assam-cm-to-governor20210509125707/
3	Assam	
4	Goa	https://www.dip.goa.gov.in/list-of-past-chief-mini

		sters-of-goat.php
5	Gujarat	https://gujaratindia.gov.in/about-gujarat/history-2.htm https://rstv.nic.in/vijay-rupani-takes-oath-chief-minister-gujarat.html
6	Haryana	https://haryanacmoffice.gov.in/previous-chief-minister-of-haryana https://haryanacmoffice.gov.in/biography https://indianexpress.com/elections/haryana-swearing-in-ceremony-live-updates-bjp-manohar-lal-khattar-dushyant-chautala-6090250/
7	Jammu and Kashmir	https://jkgad.nic.in/PDF/cmarchive.PDF
8	Karnataka	http://www.kla.kar.nic.in/prevcms.htm https://www.karnataka.com/govt/list-of-chief-ministers/
9	Kerala	https://kerala.gov.in/chief-ministers-since-1957 http://www.niyamasabha.org/codes/ginfo_5.htm
10	Madhya Pradesh	https://www.mpinfo.org/MPinfoStatic/English/whoiswho/cmlist.asp1
11	Meghalaya	http://megassembly.gov.in/governors_chiefministers.htm https://www.thehindu.com/news/national/mukul-sangma-sworn-in-chief-minister-for-second-straight-term-in-meghalaya/article4478542.ece https://economictimes.indiatimes.com/news/politics-and-nation/mukul-sangma-resigns-as-meghalaya-chief-minister/articleshow/63161134.cms https://www.thehindu.com/elections/meghalaya-2018/conrad-sangma-sworn-in-as-meghalaya-cm/article22940327.ece
12	Mizoram	https://rajbhavan.mizoram.gov.in/page/chief-ministers-of-mizoram
13	Nagaland	https://www.nagaland.gov.in/portal/portal/StatePortal/Government/ChiefMinister
14	Odisha	https://cm.odisha.gov.in/former-cms

		https://web.archive.org/web/20090410070616/http://orissagov.nic.in/e-magazine/orissaannualreference/ORA-2005/pdf/name_of_chief_minister.pdf https://timesofindia.indiatimes.com/india/naveen-patnaik-takes-oath-as-orissa-chief-minister/articleshow/4559661.cms https://www.thehindu.com/news/national/other-states/naveen-patnaik-sworn-in-as-fourth-time-cm-in-odisha/article6032635.ece https://www.thehindu.com/elections/odisha-assembly/naveen-patnaik-takes-oath-as-odisha-chief-minister-20-ministers-also-sworn-in/article27282466.ece
15	Rajasthan	https://rajassembly.nic.in/CMFormer.aspx https://economictimes.indiatimes.com/news/elections/assembly-elections/rajasthan-assembly-elections/ashok-gehlot-takes-oath-as-rajasthan-chief-minister/articleshow/67123372.cms?from=mdr
16	Sikkim	https://www.oneindia.com/list-of-chief-ministers-of-sikkim/
17	Tamil Nadu	http://www.assembly.tn.gov.in/history/cmlist.htm https://www.tn.gov.in/government/keycontact/81162
18	Tripura	https://tripurainfo.com/AboutTripura/Tripura_CMS.htm
19	Uttar Pradesh	http://up.gov.in/upexcms.aspx https://pib.gov.in/PressReleasePage.aspx?PRID=1484924
20	Uttarakhand	https://cm.uk.gov.in/pages/display/1160-exchief-ministers https://www.thehindu.com/elections/uttarakhand-2017/trivendra-rawat-takes-oath-as-uttarakhand-chief-minister/article17526906.ece https://www.thehindu.com/news/national/tirath-singh-rawat-sworn-in-as-chief-minister-of-uttarakhand/article34034149.ece https://www.thehindu.com/news/national/other-states/uttarakhand-cm-trivendra-singh-rawat-resigns/art

		icle34027399.ece
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5. Table 3: Secondary Data Sources

These sources were used to cross-verify and fill missing values in the primary data sources.

No.	State/UT	Source
1	Andhra Pradesh	https://web.archive.org/web/20120801221120/http://www.aplegislature.org/exmlas https://aplegislature.org/web/legislative-assembly/overview https://www.outlookindia.com/newswire/story/prez-nod-for-dissolution-of-andhra-assembly/838953 https://legislation.aplegislature.org/PreviewPage.do?filePath=basePath&fileName=/Portlets/LatestNews/1558706272069_dissolutionof14apla.pdf http://aplegislature.org/web/legislative-assembly/member-s-information
2	Arunachal Pradesh	https://legislativebodiesinindia.nic.in/States/Arunachal/arunachal-w.pdf http://arunachalgovernor.gov.in/pr/2019/190526%20Governor%20accepts%20resignation%20of%20Chief%20Minister.pdf http://arla.neva.gov.in/Home/Get_Common_Content_Category/409 https://eci.gov.in/files/file/2017-schedule-for-general-elections-to-the-legislative-assemblies-of-arunachal-pradesh-maharashtra-and-haryana/ https://economictimes.indiatimes.com/news/politics-and-nation/arunachal-assembly-dissolved-due-to-financial-crisis-aapsu/articleshow/31735372.cms?from=mdr https://www.outlookindia.com/newswire/amp/ar

		unachal-assembly-dissolved/233647
3	Assam	https://legislativebodiesinindia.nic.in/STATISTICAL/ASSAM.htm https://eci.gov.in/files/file/3520-schedule-for-the-general-elections-to-the-legislative-assemblies-of-assam-kerala-tamil-nadu-west-bengal-and-pondicherry/ https://www.outlookindia.com/newswire/story/assam-assembly-dissolved/722146 https://eci.gov.in/files/file/2349-schedule-for-the-general-elections-to-the-legislative-assemblies-of-assam-kerala-tamil-nadu-west-bengal-and-puducherry/ https://economictimes.indiatimes.com/news/politics-and-nation/assam-governor-dissolves-state-assembly-bjp-government-to-take-oath-to-morrow/articleshow/52408331.cms https://www.business-standard.com/article/elections/bjp-is-confused-assam-is-going-to-slip-out-of-their-hands-bhupesh-baghel-121031400043_1.html https://indianexpress.com/article/india/india-news-india/first-session-of-newly-elected-assam-assembly-to-begin-today-2828338/
4	Goa	https://eci.gov.in/files/file/3849-go-a-1989/ https://eci.gov.in/files/file/3850-go-a-1994/ https://eci.gov.in/files/file/1702-elections-to-go-a-legislative-assembly/ https://indiankanoon.org/doc/83728/ https://eci.gov.in/files/file/2311-schedule-for-general-election-to-the-legislative-assembly-of-go-a-and-bye-elections-to-fill-casual-vacancies-in-lok-sabha-and-state-legislative-assemblies/ http://goaprintingpress.gov.in/downloads/0708/0708-10-SII-EOG-4.pdf https://eci.gov.in/files/file/3741-schedule-for-the-general-election-to-the-legislative-

		assembly-of-goa/ https://eci.gov.in/files/file/2641-schedule-for-the-general-elections-to-the-legislative-assemblies-of-goa-manipur-punjab-uttar-pradesh-and-uttarakhand/ https://eci.gov.in/files/file/4478-announcement-schedule-for-the-general-elections-to-the-legislative-assemblies-of-goa-manipur-punjab-uttarakhand-and-uttar-pradesh-english-%E0%A4%B9%E0%A4%BF%E0%A4%82%E0%A4%A6%E0%A5%80/
5	Gujarat	https://legislativebodiesinindia.nic.in/STATISTICAL/GUJARAT.htm https://legislativebodiesinindia.nic.in/STATISTICAL/GUJARAT.htm https://www.thehindubusinessline.com/news/gujarat-assembly-dissolved-new-govt-likely-on-dec-25/article9999387.ece
6	Haryana	https://haryanaassembly.gov.in/house-tenures/
7	Jammu & Kashmir	http://www.ipcs.org/comm_select.php?articleNo=717 https://eci.gov.in/files/file/3789-jammu-kashmir-1967/ https://eci.gov.in/files/file/3790-jammu-kashmir-1972/ https://eci.gov.in/files/file/3791-jammu-kashmir-1977/ https://eci.gov.in/files/file/3792-jammu-kashmir-1983/ https://kashmirreader.com/2014/02/19/1990-state-assembly-dissolved/ https://eci.gov.in/files/file/3794-jammu-kashmir-1996/ https://eci.gov.in/files/file/2361-schedule-for-general-election-to-the-legislative-assembly-of-jammu-and-kashmir/ https://eci.gov.in/files/file/1707-schedule-for-general-election-to-the-legislative-assembly-of-jammu-kashmir/

		https://ceojk.nic.in/pdf/Schedule%20of%20General%20Elections%20to%20Legislative%20Assembly%20of%20J&K%202014.pdf https://www.deccanherald.com/national/after-high-political-melodrama-704240.html
8	Karnataka	http://kla.kar.nic.in/assembly/review/review.htm
9	Kerala	http://www.niyamasabha.org/codes/ginfo_11.htm
10	Madhya Pradesh	http://mpvidhansabha.nic.in/po_.htm
11	Meghalaya	https://web.archive.org/web/20200214235416/http://megassembly.gov.in/governors_chiefministers.htm https://eci.gov.in/files/file/1572-schedule-for-general-election-to-the-legislative-assemblies-of-meghalaya-nagaland-and-tripura/ https://eci.gov.in/files/file/2994-schedule-for-the-general-elections-to-the-legislative-assemblies-of-meghalaya-nagaland-and-tripura-and-bye-elections-to-fill-casual-vacancies-in-the-state-legislative-assemblies/ https://eci.gov.in/files/file/4539-announcement-of-schedule-for-general-elections-to-the-legislative-assemblies-of-meghalaya-nagaland-and-tripura-2018-english-%E0%A4%B9%E0%A4%BF%E0%A4%82%E0%A4%A6%E0%A5%80/
12	Mizoram	https://www.mizoramassembly.in/page/history https://mizoramassembly.in/storage/assemblies/July2020/Wo1L5UDP15vIZmR8ntYT.pdf https://mizoramassembly.in/storage/assemblies/July2020/ZFjTPZa1qOfI8sN7nc4e.pdf https://mizoramassembly.in/storage/assemblies/July2020/Deadair6Xrh4glcsFRov.pdf https://www.satp.org/satporgtp/countries/india/states/mizoram/timeline/86_2001.htm https://mizoramassembly.in/storage/Assembly/Gazette/E0/GZE027_ISS217.pdf

		https://eci.gov.in/files/file/3663-mizoram-1998/ https://eci.gov.in/files/file/2599-schedule-for-general-election-to-the-legislative-assemblies-of-chhatisgarh-madhya-pradesh-mizoram-nct-of-delhi-and-rajasthan-and-bye-elections-to-fill-casual-vacancies-in-state-legislative-assemblies/ https://eci.gov.in/files/file/1715-change-of-schedule-for-holding-general-elections-to-the-state-legislative-assemblies-of-madhya-pradesh-and-mizoram/ https://economictimes.indiatimes.com/news/politics-and-nation/sixth-mizoram-assembly-dissolved-by-state-governor-vakkom-purushothaman/articleshow/27239393.cms?from=mdr https://www.indiatoday.in/elections/story/zo-ramthanga-to-take-oath-as-mizoram-cm-on-sunday-1408323-2018-12-13
13	Nagaland	https://legislativebodiesinindia.nic.in/STATISTICAL/NAGALAND.htm https://eci.gov.in/files/file/1572-schedule-for-general-election-to-the-legislative-assemblies-of-meghalaya-nagaland-and-tripura/ https://eci.gov.in/files/file/2994-schedule-for-the-general-elections-to-the-legislative-assemblies-of-meghalaya-nagaland-and-tripura-and-bye-elections-to-fill-casual-vacancies-in-the-state-legislative-assemblies/ https://eci.gov.in/files/file/4539-announcement-of-schedule-for-general-elections-to-the-legislative-assemblies-of-meghalaya-nagaland-and-tripura-2018-english-%E0%A4%B9%E0%A4%BF%E0%A4%82%E0%A4%A6%E0%A5%80/
14	Odisha	http://odishaassembly.nic.in/MLAprof.aspx
15	Rajasthan	https://rajasassembly.nic.in/OverviewHouseTenure.aspx
16	Sikkim	http://sikkimarchives.gov.in/gazettes/Gazette%201979.pdf

		https://ceosikkim.nic.in/UploadedFiles/Report/Statistical%20Report%201979%20Sikkim.pdf http://sikkimarchives.gov.in/gazettes/Gazette%201985.pdf https://ceosikkim.nic.in/UploadedFiles/Report/StatisticalReport%201985%20Sikkim.pdf http://sikkimarchives.gov.in/gazettes/Gazette%201989.pdf https://ceosikkim.nic.in/UploadedFiles/Report/StatREp_SK_89.pdf http://sikkimarchives.gov.in/gazettes/GAZ1994.pdf https://ceosikkim.nic.in/UploadedFiles/Report/StatisticalReport-SK94.pdf http://sikkimarchives.gov.in/gazettes/gaz1999.pdf https://ceosikkim.nic.in/UploadedFiles/Report/StatisticalReport-SK99.pdf https://www.outlookindia.com/newswire/story/sikkim-assembly-dissolved-seven-months-ahead-of-term/200868 http://sikkimarchives.gov.in/gazettes/GAZZ2009.pdf https://sikkim.gov.in/departments/sikkim-legislative-assembly/sikkim-legislative-assembly https://www.jagranjosh.com/current-affairs/9th-sikkim-state-legislative-assembly-constituted-1401370544-1 https://eci.gov.in/files/file/9396-announcement-of-schedule-for-general-elections-to-lok-sabha-and-legislative-assemblies-in-andhra-pradesh-arunachal-pradesh-odisha-sikkim-2019/
17	Tamil Nadu	https://legislativebodiesinindia.nic.in/STATISTICAL/TAMILNADU.htm https://eci.gov.in/files/file/4203-schedule-for-the-general-elections-to-the-legislative-assemblies-of-assam-kerala-tamil-nadu-west-

		bengal-and-puducherryenglish-%E0%A4%B9%E0%A4%BF%E0%A4%82%E0%A4%A6%E0%A5%80/ https://www.indiatoday.in/elections/tamil-nadu-assembly-polls-2021/story/tn-cm-palaniswami-resigns-guv-accepts-it-dissolves-assembly-1798464-2021-05-03
18	Tripura	https://web.archive.org/web/20160303232359/http://legislativebodiesinindia.nic.in/STATISTICAL/tripura.html https://eci.gov.in/files/file/4539-announcement-of-schedule-for-general-elections-to-the-legislative-assemblies-of-meghalaya-nagaland-and-tripura-2018-english-%E0%A4%B9%E0%A4%BF%E0%A4%82%E0%A4%A6%E0%A5%80/
19	Uttar Pradesh	https://legislativebodiesinindia.nic.in/STATISTICAL/UP.htm#up http://uplegisassembly.gov.in/Members/pdfs/15th_vs_sadashya_parichay.pdf http://uplegisassembly.gov.in/Members/pdfs/16th_vs_sadashya_parichay.pdf http://uplegisassembly.gov.in/flipbooks/17whooswho/files/assets/basic-html/page-5.html#
20	Uttarakhand	https://ukvidhansabha.uk.gov.in/pages/display/76-brief-profile https://ceo.uk.gov.in/pages/view/51/58-schedule-of-elections https://ceo.uk.gov.in/pages/view/60/62-election-schedule-2007 https://ceo.uk.gov.in/files/Election2012/schedule-Election-2012.pdf

6. Documentation Process

For the data, the primary data sources were the official government websites of the states and union territories with domain names *gov* and *nic* (as referred in table 2). For the 20 states, the CM names and most tenures were filled through these data sources. The gaps were filled using the secondary data sources. The secondary data sources were also used to cross-check the original data.

Furthermore, since different sources represent this data differently, it was ensured that each row represents a CM for a specific assembly and tenure for consistency across the dataset. The assembly number has been taken corresponding to the assembly numbers as in the TCPD-IED dataset. This further helped in identifying electoral details for the CMs through the TCPD-IED dataset. Accordingly, where CM tenures were merged in the original sources across multiple assemblies, they were split for each assembly term in the dataset. Conversely, some CM tenures as scraped from the sources had been broken down, according to Governor's tenures. These cases were accordingly merged to represent a continuous tenure. Then there were some CM tenures that had been clubbed together regardless of the number of assemblies they held the post. These CM tenures have also been disaggregated according to respective assembly terms. Where data sources showed a CM tenure as straddling two or more assemblies uninterruptedly, the part of the CM tenure corresponding to the gap between two assemblies (where such gaps exist) has been assigned to the preceding assembly. This occurs when following the dissolution of an assembly, the constitution of the new assembly occurs with a delay of a few days or more. In instances where the Chief Minister changes with the constitution of a new assembly, the outgoing CM may continue on in their post after the dissolution of the preceding assembly and until the next CM is elected. In such cases too, the period of the CM tenure that overshoots the assembly dissolution is appended to the main tenure that corresponds wholly with that assembly.

For this standardization, the start and end dates for state assemblies - namely, the date of constitution and dissolution, were outlined based on secondary data sources as mentioned in table 3. Where the exact dates were unavailable, the constitution and dissolution dates were denoted based on the following assumptions.

1. Where the exact start date is unavailable, the assembly is assumed to have been constituted one day after the declaration of election results.
2. Where result dates are unavailable, the assembly is assumed to have been constituted 2 days after the date of polling. If the date denoted as such falls before the officially designated dissolution of the previous assembly, the date of constitution is moved to one day after the dissolution of the previous assembly.
3. Where the date of dissolution is unavailable, the assembly is assumed to have been dissolved one day before the start of the next assembly.

Through this activity, periods of President's Rule were also determined for the states.

The data have also been standardized to identify CM's electoral information through matching this data with the TCPD-IED. This was done by finding matching occurrences of the CM's name in the TCPD-IED through string similarity measures, and then several levels of manual checks.

Where it was not possible to find a match for the electoral variables, it was determined whether the CM was an MLC (member of the State Legislative Council instead of the Legislative Assembly) or a caretaker CM (not a legislative representative).

Finally, there were some cases where we could not verify if the CM was an MLA, MLC or caretaker CM. These cases are mentioned in the Exceptions section.

Each CM has also been assigned a unique person identifier (*pid_CM*) using our tool, Surf. This helps track individuals who may have been CMs across assemblies and states. The *pid_CM* has also been used to identify the number of times each individual has been a CM.

7. Exceptions

These are cases where we could not verify if the CM was an MLA, MLC or caretaker CM, or where the mapping was not possible due to missingness in the TCPD-IED.

Lack of verification:

Andhra Pradesh

1. Sri K.Vijaya Bhaskara Reddy (20-09-1982 to 08-01-1983)

Arunachal Pradesh

1. Dorjee Khandu (10-04-2007 to 04-05-2009)
(<https://economictimes.indiatimes.com/news/politics-and-nation/rebel-dorjee-khandu-upstages-veteran-apang-in-arunachal/articleshow/1882889.cms?from=mdr>)

Haryana

1. Shri Bhagwat Dayal Sharma (01-11-1966 to 10-03-1967; 11-03-1967 to 23-03-1967)
2. Rao Birender Singh (16-07-1967 to 20-11-1967) Note: Defected post elections.
3. Shri Om Parkash Chautala (02-12-1989 to 22-05-1990; 12-07-1990 to 17-07-1990) Note: This person was son of preceding CM, Choudhary Devi Lal, who died during his tenure.

Jammu and Kashmir

1. Dr Farooq Abdullah (08-09-1982 , 02-07-1984) Note: Upon the death of Sheikh Abdullah in September 1982, Farooq succeeded his father as the CM and as president of the JKNC.
(<https://www.britannica.com/biography/Farooq-Abdullah>)

Kerala

1. Shri. A. K. Antony (27-04-1977 to 27-10-1978)

Meghalaya

1. Capt. W.A. Sangma (18-03-1972 to 03-03-1978) Note: This person was caretaker CM before this tenure.

Madhya Pradesh

1. Shri Dwarka Prasad Mishra (30-09-1963 to 08-03-1967)

Nagaland

1. P.Shilu Ao (01-12-1963 to 14-08-1966) Note: Was already selected as a caretaker CM before the elections in 1964.
2. Vamuzo Phesao (19-06-1990 to 02-04-1992)
3. Dr.Shurhozeli Liezietsu (22-02-2017 to 18-07-2017)

Odisha

1. Dr. Giridhar Gamang (17-02-1999 to 06-12-1999)

Rajasthan

1. Barkatullah Khan (09-07-1971 to 11-10-1973)
(<https://www.asianage.com/india/politics/270217/breaking-the-caste-barrier-in-rajasthan-politics.html>)
2. Bhairon Singh Shekhawat (22-06-1977 to 16-02-1980) Note: TCPD-IED indicates Prem Singh is the winning candidate from the supposed constituency of the CM.

Sikkim

1. Kazi Lhendup Dorjee (16-05-1975 to 18-08-1979)
2. Sanchaman Limboo (17-06-1994 to 12-12-1994)

Tripura

1. Sachindra Lal Singh (01-07-1963 to 01-11-1971)

Uttar Pradesh

1. Sri T N Singh (18-10-1970 to 03-04-1971) Note: There were multiple CM Changes during this assembly.
2. Sri Hemvati Nandan Bahuguna (08-11-1973 to 04-03-1974)
3. Sri Ram Naresh Yadav (23-06-1977 to 27-02-1979) Note: TCPD-IED indicates Ram Singh is the winning candidate from the supposed constituency of the CM.
4. Sri N.D. Tiwari (03-08-1984 to 10-03-1985)
5. Ms. Mayawati (03-06-1995 to 17-10-1995)

Missing in TCPD-IED, but confirmed to be MLA:

Goa

1. Shri Manohar Parrikar (14-03-2017 to 17-03-2019)

Madhya Pradesh

1. Shri Kamal Nath (17-12-2018 to 22-03-2020) Note: Won a by-election.
(<https://economictimes.indiatimes.com/news/politics-and-nation/madhya-pradesh-cm-kamal-nath-takes-oath-as-mla/articleshow/69723615.cms>)

Meghalaya

1. Shri Conrad Sangma (06-03-2018 to current)
(https://myneta.info/meghalaya2018/candidate.php?candidate_id=6146)

Sikkim

1. Pawan Kumar Chamling (21-05-2004 to 20-05-2009)

Uttarakhand

The CMs between 09-11-2000 and 01-03-2002 were MLAs from the larger UP assembly before Uttarakhand was formed.

Other exceptions:

Karnataka

All CMs between 1962 and 1977 were officially CMs for Mysore state.

Tamil Nadu

All CMs between 1962 and 1971 were officially CMs for Madras State.