

Package ‘covid19india’

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Type Package

Title Pulling Clean Data from Covid19india.org

Version 0.1.4

Description Pull raw and pre-cleaned versions of national and state-level COVID-19 time-series data from covid19india.org <<https://www.covid19india.org>>. Easily obtain and merge case count data, testing data, and vaccine data. Also assists in calculating the time-varying effective reproduction number with sensible parameters for COVID-19.

URL <https://github.com/maxsal/covid19india>

BugReports <https://github.com/maxsal/covid19india/issues>

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Encoding UTF-8

LazyData true

RoxygenNote 7.1.2

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Depends R (>= 3.6)

NeedsCompilation no

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check_for_data_correction

Check for data corrections of X-times magnitude - data.table style

Description

Check for data corrections of X-times magnitude - data.table style

Usage

```
check_for_data_correction(
  dat,
  var = "daily_cases",
  magnitude = 10,
  min_count = 10
)
```

Arguments

dat	data set
var	variable for which to check for corrections. Default is "daily_cases"
magnitude	magnitude of difference that qualifies as a data correction. Default is 10.
min_count	minimum count of var. Default is 10.

Value

Data set with data correction observations removed

Examples

```
## Not run:
check_for_data_correction(dat = get_nat_counts, var = "daily_cases", magnitude = 10)

## End(Not run)
```

extract_latest	<i>Helper function</i>
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Description

Helper function

Usage

```
extract_latest(dat, group = place, clmns = c("total_tests", "tpr", "ppt"))
```

Arguments

dat	data set
group	place variable
clmns	columns to be extracted

Value

Data set of recent observations of selected variables

Examples

```
## Not run:
extract_latest(dat = get_all_data())

## End(Not run)
```

get_all_data	<i>Pull all covid19india count, test, and vaccine data for states and nation</i>
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Description

Pull all covid19india count, test, and vaccine data for states and nation

Usage

```
get_all_data(keep_nat = TRUE, covind19_name_scheme = FALSE, corr_check = TRUE)
```

Arguments

keep_nat	Keep the national data as well. Default is FALSE
covind19_name_scheme	Variable naming scheme used for development of covind19.org application
corr_check	Check for data corrections of X-times magnitude. Default is TRUE

Value

Pulls the district-level time-series case, death, and recovered data directly from covid19india.org.

Examples

```
## Not run:  
get_all_data()  
  
## End(Not run)
```

get_cfr	<i>Calculate case_fatality rate</i>
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Description

Calculate case_fatality rate

Usage

```
get_cfr(x)
```

Arguments

x Input dataset. Expects total_cases and total_deaths variables

Value

Calculates a case-fatality rate estimate and corresponding 95% confidence interval

Examples

```
## Not run:  
get_cfr(x = get_nat_counts())  
  
## End(Not run)
```

get_district_counts *Pull covid19india district-level data*

Description

Pull covid19india district-level data

Usage

```
get_district_counts(  
  path = "https://api.covid19india.org/csv/latest/districts.csv",  
  raw = FALSE  
)
```

Arguments

path	The URL path for the data. Default: <code>https://api.covid19india.org/csv/latest/districts.csv</code>
raw	Pull raw unaltered data. Default is FALSE

Value

Pulls the district-level time-series case, death, and recovered data directly from covid19india.org.

Examples

```
## Not run:  
get_district_counts()  
  
## End(Not run)
```

get_metrics_tables *Create metrics tables*

Description

Create metrics tables

Usage

```
get_metrics_tables(seed = 46342, top20 = NULL, corr_check = TRUE)
```

Arguments

seed	set seed
top20	Vector of state abbreviations for top 20 table
corr_check	Check for data corrections of X-times magnitude. Default is TRUE

Value

Creates metrics tables for use in covind19.org

Examples

```
## Not run:
tabs <- get_metrics_tables()

tabs$full

## End(Not run)
```

get_nat_counts	<i>Pull covid19india national time series data</i>
----------------	--

Description

Pull covid19india national time series data

Usage

```
get_nat_counts(
  path = "https://api.covid19india.org/csv/latest/case_time_series.csv",
  raw = FALSE,
  corr_check = FALSE
)
```

Arguments

path	The URL path for the data. Default: https://api.covid19india.org/csv/latest/case_time_series.csv
raw	Pull raw unaltered data. Default is FALSE
corr_check	Check for data correction. Default is FALSE

Value

Pulls the time-series case, death, and recovered data directly from covid19india.org.

Examples

```
## Not run:
get_nat_counts_dt()

## End(Not run)
```

get_nat_tests	<i>Pull covid19india national time series test data</i>
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Description

Pull covid19india national time series test data

Usage

```
get_nat_tests(  
  path = "https://data.covid19india.org/csv/latest/tested_numbers_icmr_data.csv",  
  raw = FALSE  
)
```

Arguments

path	The URL path for the data. Default: <code>https://api.covid19india.org/data.json</code>
raw	Pull raw unaltered data. Default is FALSE

Value

Pulls the time-series test data directly from covid19india.org.

Examples

```
## Not run:  
get_nat_tests()  
  
## End(Not run)
```

get_r0	<i>Calculate r0</i>
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Description

Calculate r0

Usage

```
get_r0(  
  dat,  
  daily_filter = 0,  
  total_filter = 50,  
  min_date = "2020-03-23",  
  corr_check = FALSE  
)
```

Arguments

dat	Input dataset. Expects daily_cases, total_cases, and place columns
daily_filter	Threshold for minimum daily cases. Default = 0.
total_filter	Threshold for minimum total cases reported to date. Default = 50.
min_date	Threshold for earliest date to report R_0. Default = "2020-03-23".
corr_check	Check for data corrections of X-times magnitude. Default is FALSE

Value

Pulls the time-series state-level testing data directly from covid19india.org. Expects columns named place, daily_cases, and total_cases. Can specify corresponding variables through other arguments.

Examples

```
## Not run:
get_r0(dat = get_nat_counts())

## End(Not run)
```

get_r_est

Helper function for pulling latest R estimates

Description

Helper function for pulling latest R estimates

Usage

```
get_r_est(x)
```

Arguments

x data set containing R estimates

Value

Pulls 7-day trailing average R estimates and 95% confidence intervals

Examples

```
## Not run:
get_r_est(x = get_all_data())

## End(Not run)
```

get_state_counts *Pull covid19india state*

Description

Pull covid19india state

Usage

```
get_state_counts(  
  path = "https://api.covid19india.org/csv/latest/state_wise_daily.csv",  
  raw = FALSE,  
  keep_nat = FALSE,  
  corr_check = FALSE  
)
```

Arguments

path	The URL path for the data. Default: <code>https://api.covid19india.org/csv/latest/state_wise_daily.csv</code>
raw	Pull raw unaltered data. Default is FALSE
keep_nat	Keep the national data as well. Default is FALSE
corr_check	Check for data correction. Default is FALSE

Value

Pulls the time-series case, death, and recovered data directly from covid19india.org.

Examples

```
## Not run:  
get_state_counts()  
  
## End(Not run)
```

get_state_tests *Pull covid19india state-level testing data*

Description

Pull covid19india state-level testing data

Usage

```
get_state_tests(  
  path = "https://api.covid19india.org/csv/latest/statewise_tested_numbers_data.csv",  
  raw = FALSE  
)
```

Arguments

path The URL path for the data. Default: `https://api.covid19india.org/csv/latest/statewise_tested_numbers_data`
 raw Pull raw unaltered data. Default is FALSE

Value

Pulls the time-series state-level testing data directly from covid19india.org.

Examples

```
## Not run:
get_state_tests()

## End(Not run)
```

<code>get_state_vax</code>	<i>Pull covid19india state-level vaccine data</i>
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Description

Pull covid19india state-level vaccine data

Usage

```
get_state_vax(
  path = "https://api.covid19india.org/csv/latest/vaccine_doses_statewise_v2.csv",
  raw = FALSE,
  keep_nat = TRUE
)
```

Arguments

path The URL path for the data. Default: `https://api.covid19india.org/csv/latest/vaccine_doses_statewise_v2.csv`
 raw Pull raw unaltered data. Default is FALSE
 keep_nat Keep national level data? Default is TRUE

Value

Pulls the time-series state-level vaccine data directly from covid19india.org.

Examples

```
## Not run:
get_state_vax()

## End(Not run)
```

pop

List of places, abbreviations, and populations in India

Description

This data set contains the names of states and union territories in India along with their respective abbreviations and populations. The population of India is also given. These are 2019 projections as reported in the Unique Identification Authority of India 2019-2020 Annual Report.

Usage

pop

Format

A data frame with 39 rows and 3 variables: place, abbrev, population

place The name of the place

abbrev The abbreviations corresponding to place

population The population size

References

2019-2020 Annual Report Annexure IV (pg 103), Unique Identification Authority of India https://uidai.gov.in/images/AADHAR_AR_2019_20_ENG_approved.pdf

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