

Data Sources

Yatko API

Country name
iso3166a2
iso3166a3
iso3166numeric
total_cases
active_cases
deaths
recovered
critical
tested
death_ratio
recovery_ratio

Johns Hopkinns API

CountryCode
Country
Date
New Confirmed
New Deaths
New Recovered
Total Confirmed
Total Deaths
Total Recovered

Bing API

ID
ConfirmedChange
DeathsChange
RecoveredChange
Latitude
Longitude
ISO3

Ireland (data.gov.ie)

There are multiple dataframes created from the data made available by data.gov.ie, named as follows:

IrelandConfirmedCases
IrelandCaseTypes
IrelandGenderWise
IrelandHospitalData
IrelandSpreadCategory
SpreadRateIreland
CountyWise_TimeSeries

Pre-processing:

- The date formats were made same for all the data received from three different sources.
- Data from Yatko API and Johns Hopkinns API were converted into a similar format to integrate the data, eg: differences between naming conventions between the two APIs(USA/United States of America ; UK = United Kingdom)
- Renaming column names to make the data frame easily readable.
- Merging of Bing and Johns Hopkinns dataframe to handle data discrepancies.
- Unnecessary columns and data was dropped and gaps were filled by integrating the data from different sources.

once the data is in the correct format with proper data, converted it in the time series format so that this data can be used by the lex to answer the queries by the user.

Merged Dataframes

Johns Hopkinns + Yatko API

CountryCode
Country
Date
New Confirmed
New Deaths
New Recovered
Total Confirmed
Total Deaths
Total Recovered
Critical
TotalTestsDone
DeathRatio
RecoveryRatio

Johns Hopkinns + BING

CountryCode
Country
Date
New Confirmed
New Deaths
New Recovered
Total Confirmed
Total Deaths
Total Recovered