DESCRIPCIÓN DEL DATASET

Introducción:

El dataset contiene información detallada relacionada con la evolución de la pandemia de COVID-19 para Tierra del fuego. Integra variables epidemiológicas, demográficas, de movilidad, vacunación, hospitalización y condiciones climáticas.

Cantidad de Instancias (Filas)

- Cantidad estimada: entre 5000 y 10000 registros, dependiendo del país o región analizada.

- Cada fila representa los datos correspondientes a un lugar específico y una fecha determinada.

Variables del dataset:

```
location_key                                object
date                                        object
place_id                                    object
wikidata_id                                 object
country_code                                object
country_name                                object
subregion1_code                             object
subregion1_name                             object
iso_3166_1_alpha_2                          object
iso_3166_1_alpha_3                          object
aggregation_level                            int64
new_confirmed                              float64
new_deceased                               float64
new_tested                                 float64
cumulative_confirmed                       float64
cumulative_deceased                        float64
cumulative_tested                          float64
new_hospitalized_patients                  float64
cumulative_hospitalized_patients           float64
new_intensive_care_patients                float64
cumulative_intensive_care_patients         float64
new_persons_vaccinated                     float64
cumulative_persons_vaccinated              float64
new_persons_fully_vaccinated               float64
cumulative_persons_fully_vaccinated        float64
new_vaccine_doses_administered             float64
cumulative_vaccine_doses_administered      float64
new_confirmed_age_0                        float64
new_confirmed_age_1                        float64
new_confirmed_age_2                        float64
new_confirmed_age_3                        float64
new_confirmed_age_4                        float64
new_confirmed_age_5                        float64
new_confirmed_age_6                        float64
new_confirmed_age_7                        float64
new_confirmed_age_8                        float64
```

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new_confirmed_age_9	float64
cumulative_confirmed_age_0	float64
cumulative_confirmed_age_1	float64
cumulative_confirmed_age_2	float64
cumulative_confirmed_age_3	float64
cumulative_confirmed_age_4	float64
cumulative_confirmed_age_5	float64
cumulative_confirmed_age_6	float64
cumulative_confirmed_age_7	float64
cumulative_confirmed_age_8	float64
cumulative_confirmed_age_9	float64
new_deceased_age_0	float64
new_deceased_age_1	float64
new_deceased_age_2	float64
new_deceased_age_3	float64
new_deceased_age_4	float64
new_deceased_age_5	float64
new_deceased_age_6	float64
new_deceased_age_7	float64
new_deceased_age_8	float64
new_deceased_age_9	float64
cumulative_deceased_age_0	float64
cumulative_deceased_age_1	float64
cumulative_deceased_age_2	float64
cumulative_deceased_age_3	float64
cumulative_deceased_age_4	float64
cumulative_deceased_age_5	float64
cumulative_deceased_age_6	float64
cumulative_deceased_age_7	float64
cumulative_deceased_age_8	float64
cumulative_deceased_age_9	float64
new_tested_age_0	float64
new_tested_age_1	float64
new_tested_age_2	float64
new_tested_age_3	float64
new_tested_age_4	float64
new_tested_age_5	float64
new_tested_age_6	float64
new_tested_age_7	float64
new_tested_age_8	float64
new_tested_age_9	float64
cumulative_tested_age_0	float64
cumulative_tested_age_1	float64
cumulative_tested_age_2	float64
cumulative_tested_age_3	float64
cumulative_tested_age_4	float64
cumulative_tested_age_5	float64
cumulative_tested_age_6	float64
cumulative_tested_age_7	float64
cumulative_tested_age_8	float64
cumulative_tested_age_9	float64
new_hospitalized_patients_age_0	float64
new_hospitalized_patients_age_1	float64
new_hospitalized_patients_age_2	float64
new_hospitalized_patients_age_3	float64
new_hospitalized_patients_age_4	float64
new_hospitalized_patients_age_5	float64
new_hospitalized_patients_age_6	float64

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```
new_hospitalized_patients_age_7                  float64
new_hospitalized_patients_age_8                  float64
new_hospitalized_patients_age_9                  float64
cumulative_hospitalized_patients_age_0           float64
cumulative_hospitalized_patients_age_1           float64
cumulative_hospitalized_patients_age_2           float64
cumulative_hospitalized_patients_age_3           float64
cumulative_hospitalized_patients_age_4           float64
cumulative_hospitalized_patients_age_5           float64
cumulative_hospitalized_patients_age_6           float64
cumulative_hospitalized_patients_age_7           float64
cumulative_hospitalized_patients_age_8           float64
cumulative_hospitalized_patients_age_9           float64
new_intensive_care_patients_age_0                float64
new_intensive_care_patients_age_1                float64
new_intensive_care_patients_age_2                float64
new_intensive_care_patients_age_3                float64
new_intensive_care_patients_age_4                float64
new_intensive_care_patients_age_5                float64
new_intensive_care_patients_age_6                float64
new_intensive_care_patients_age_7                float64
new_intensive_care_patients_age_8                float64
new_intensive_care_patients_age_9                float64
cumulative_intensive_care_patients_age_0         float64
cumulative_intensive_care_patients_age_1         float64
cumulative_intensive_care_patients_age_2         float64
cumulative_intensive_care_patients_age_3         float64
cumulative_intensive_care_patients_age_4         float64
cumulative_intensive_care_patients_age_5         float64
cumulative_intensive_care_patients_age_6         float64
cumulative_intensive_care_patients_age_7         float64
cumulative_intensive_care_patients_age_8         float64
cumulative_intensive_care_patients_age_9         float64
age_bin_0                                         object
age_bin_1                                         object
age_bin_2                                         object
age_bin_3                                         object
age_bin_4                                         object
age_bin_5                                         object
age_bin_6                                         object
age_bin_7                                         object
age_bin_8                                         object
age_bin_9                                         object
new_confirmed_male                               float64
new_confirmed_female                             float64
cumulative_confirmed_male                        float64
cumulative_confirmed_female                      float64
new_deceased_male                                float64
new_deceased_female                              float64
cumulative_deceased_male                         float64
cumulative_deceased_female                       float64
new_tested_male                                  float64
new_tested_female                                float64
cumulative_tested_male                           float64
cumulative_tested_female                         float64
new_hospitalized_patients_male                   float64
new_hospitalized_patients_female                 float64
cumulative_hospitalized_patients_male            float64
```

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```
cumulative_hospitalized_patients_female        float64
new_intensive_care_patients_male               float64
new_intensive_care_patients_female             float64
cumulative_intensive_care_patients_male        float64
cumulative_intensive_care_patients_female      float64
population                                     int64
population_male                                int64
population_female                              int64
population_age_00_09                           int64
population_age_10_19                           int64
population_age_20_29                           int64
population_age_30_39                           int64
population_age_40_49                           int64
population_age_50_59                           int64
population_age_60_69                           int64
population_age_70_79                           int64
population_age_80_and_older                    int64
openstreetmap_id                               int64
latitude                                       float64
longitude                                      float64
elevation_m                                    int64
area_sq_km                                     int64
mobility_retail_and_recreation                 float64
mobility_grocery_and_pharmacy                  float64
mobility_parks                                 float64
mobility_transit_stations                      float64
mobility_workplaces                            float64
mobility_residential                           float64
average_temperature_celsius                    float64
minimum_temperature_celsius                    float64
maximum_temperature_celsius                    float64
rainfall_mm                                    float64
snowfall_mm                                    float64
dew_point                                      float64
relative_humidity                              float64
dtype: object
```

Cantidad de Características (Columnas)

- El dataset cuenta con más de 150 columnas, agrupadas en las siguientes categorías:

Epidemiología:

- new_confirmed, new_deceased, new_tested, new_hospitalized_patients, new_intensive_care_patients, y sus acumulados.

Demografía:

- population, population_male, population_female, population_age_00_09, ..., population_age_80_and_older.

Ubicación:

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- location_key, country_name, subregion1_name, latitude, longitude, elevation_m, area_sq_km.

Movilidad:

- mobility_retail_and_recreation, mobility_workplaces, mobility_transit_stations, etc.

Clima:

- average_temperature_celsius, relative_humidity, rainfall_mm, entre otros.

Vacunación:

- new_persons_vaccinated, new_persons_fully_vaccinated, new_vaccine_doses_administered, y sus acumulados.

Variable Objetivo

- new_intensive_care_patients: número de nuevos pacientes ingresados en unidades de cuidados intensivos (variable continua entera).

Tipo de Problema

- Se trata de un problema de regresión supervisada, ya que el objetivo es predecir un valor numérico continuo.

Origen del Dataset

- Fuente: https://health.google.com/covid-19/open-data/
- Entidad recopiladora: Google y colaboradores académicos.
- Cobertura geográfica: global, incluyendo datos específicos por país, provincia o región.
- Proceso de recopilación: los datos son integrados desde múltiples fuentes oficiales de gobiernos, instituciones de salud pública, y datos abiertos de movilidad (Google Mobility), clima (NOAA), y vacunación (Our World in Data).
- Preprocesamiento realizado:
  - Se filtraron los datos para un país específico (por ejemplo, Argentina).

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