

0.03-PS-testing-load-and-clean-utils

November 15, 2024

```
[1]: import os
import sys

sys.path.append(os.path.dirname(os.getcwd()))

from src.load_covid19 import load_clean_covid19
import pandas as pd
```

```
[2]: df = load_clean_covid19()
```

Warning: Your Kaggle API key is readable by other users on this system! To fix this, you can run 'chmod 600 /home/philipp/.kaggle/kaggle.json'
Dataset already exists at /home/philipp/Dokumente/Master_Data_Science_Fernuni_Hagen/Projektpraktikum_Web_Science/covid-19-risiko-erkennung/src/../data/raw/covid19-dataset. Skipping download.
Saving clean dataset to: /home/philipp/Dokumente/Master_Data_Science_Fernuni_Hagen/Projektpraktikum_Web_Science/covid-19-risiko-erkennung/data/interim/covid-data-clean.csv
Saved
Loading clean dataset from: /home/philipp/Dokumente/Master_Data_Science_Fernuni_Hagen/Projektpraktikum_Web_Science/covid-19-risiko-erkennung/data/interim/covid-data-clean.csv

```
[3]: df
```

```
[3]:
```

	USMER	MEDICAL_UNIT	SEX	PATIENT_TYPE	INTUBED	PNEUMONIA	\
0	2	1	female	returned home	<NA>	True	
1	2	1	male	returned home	<NA>	True	
2	2	1	male	hospitalization	True	False	
3	2	1	female	returned home	<NA>	False	
4	2	1	male	returned home	<NA>	False	
...	
1048570	2	13	male	returned home	<NA>	False	
1048571	1	13	male	hospitalization	False	False	
1048572	2	13	male	returned home	<NA>	False	
1048573	2	13	male	returned home	<NA>	False	
1048574	2	13	male	returned home	<NA>	False	

	AGE	PREGNANT	DIABETES	COPD	...	INMSUPR	HIPERTENSION	\
0	65	False	False	False	...	False	True	
1	72	<NA>	False	False	...	False	True	
2	55	<NA>	True	False	...	False	False	
3	53	False	False	False	...	False	False	
4	68	<NA>	True	False	...	False	True	
...	
1048570	40	<NA>	False	False	...	False	False	
1048571	51	<NA>	False	False	...	False	True	
1048572	55	<NA>	False	False	...	False	False	
1048573	28	<NA>	False	False	...	False	False	
1048574	52	<NA>	False	False	...	False	False	

	OTHER_DISEASE	CARDIOVASCULAR	OBESITY	RENAL_CHRONIC	TOBACCO	\
0	False	False	False	False	False	
1	False	False	True	True	False	
2	False	False	False	False	False	
3	False	False	False	False	False	
4	False	False	False	False	False	
...	
1048570	False	False	False	False	False	
1048571	False	False	False	False	False	
1048572	False	False	False	False	False	
1048573	False	False	False	False	False	
1048574	False	False	False	False	False	

	CLASIFFICATION_FINAL	ICU	DIED
0	3	<NA>	True
1	5	<NA>	True
2	3	False	True
3	7	<NA>	True
4	3	<NA>	False
...
1048570	7	<NA>	False
1048571	7	False	False
1048572	7	<NA>	False
1048573	7	<NA>	False
1048574	7	<NA>	False

[1048575 rows x 21 columns]

```
[4]: df.dtypes
```

```
[4]: USMER                int64
MEDICAL_UNIT            int64
SEX                    category
PATIENT_TYPE            category
```

INTUBED	boolean
PNEUMONIA	boolean
AGE	int64
PREGNANT	boolean
DIABETES	boolean
COPD	boolean
ASTHMA	boolean
INMSUPR	boolean
HIPERTENSION	boolean
OTHER_DISEASE	boolean
CARDIOVASCULAR	boolean
OBESITY	boolean
RENAL_CHRONIC	boolean
TOBACCO	boolean
CLASIFFICATION_FINAL	int64
ICU	boolean
DIED	boolean
dtype:	object

```
[5]: missing_values_count = df.isna().sum()
      print(missing_values_count)
```

USMER	0
MEDICAL_UNIT	0
SEX	0
PATIENT_TYPE	0
INTUBED	855869
PNEUMONIA	16003
AGE	0
PREGNANT	527265
DIABETES	3338
COPD	3003
ASTHMA	2979
INMSUPR	3404
HIPERTENSION	3104
OTHER_DISEASE	5045
CARDIOVASCULAR	3076
OBESITY	3032
RENAL_CHRONIC	3006
TOBACCO	3220
CLASIFFICATION_FINAL	0
ICU	856032
DIED	0
dtype:	int64

```
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