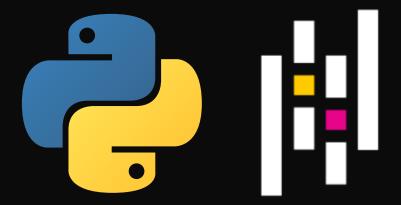
Pandas Data Cleaning



1. Sample of Data

• • •	termi	inal				
Duration		Date	Pulse	Maxpulse	Calories	
0	60	'2020	/12/01'	110	130	409.1
1	60	'2020	/12/02'	117	145	479.0
17	60	'2020	/12/17'	100	120	300.0
18	45	'2020	/12/18'	90	112	NaN
19	60	'2020	/12/19'	103	123	323.0
20	45	'2020	/12/20'	97	125	243.0
21	60	'2020	/12/21'	108	131	364.2
22	45	N	NaN	100	119	282.0
23	60	17	12/23'	130	101	300.0
24	45	'2020	/12/24'	105	132	246.0
25	60	'2020	/12/25'	102	126	334.5
26	60	202	0/12/26	100	120	50.0
27	F	2020	/12/27'	92	118	11.0
28	60	'2020	/12/28'	103	132	NaN



2. Cleaning Empty Cells

```
import pandas as pd

df = pd.read_csv('data.csv')

new_df = df.dropna()

print(new_df.to_string())
```

Note: By default, the dropna() method returns a new DataFrame, and will not change the original.



3. Replace Empty Values

```
import pandas as pd

df = pd.read_csv('data.csv')

df.fillna(130, inplace = True)
```

The fillna() method allows us to replace empty cells with a value



4. Convert Date Into a Correct Format

```
import pandas as pd

df = pd.read_csv('data.csv')

df['Date'] = pd.to_datetime(df['Date'])

print(df.to_string())
```

Pandas has a to_datetime() method to convert all cells in the 'Date' column into dates.



5. Removing Duplicates

```
import pandas as pd

df = pd.read_csv('data.csv')

df.drop_duplicates()

print(df.to_string())
```

To remove duplicates, use the drop_duplicates() method.



6. Fixing Wrong Data

```
#Loop through all values in the "Duration" column.
#If the value is higher than 120, set it to 120:
# or delete it

for x in df.index:
   if df.loc[x, "Duration"] > 120:
        df.loc[x, "Duration"] = 120
        # df.drop(x, inplace = True) // use to delete
```

One way to fix wrong values is to replace them with something else. Another way of handling wrong data is to remove the rows that contains wrong data.



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