

How can I swap two rows in a Pandas dataframe? Can you provide an example?

Authored by
stats writer

June 25, 2024

RECOMMENDED CITATION

stats writer (2024). *How can I swap two rows in a Pandas dataframe? Can you provide an example?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=152538>

To swap two rows in a Pandas dataframe, you can use the `.iloc` function and specify the index of the rows you want to swap. For example, to swap the first and second rows, you can use the code `df.iloc[0] = df.iloc[1]`. This will interchange the values of the first and second rows in the dataframe.

Swap Two Rows in Pandas (With Example)

You can use the following custom function to swap the position of two rows in a pandas DataFrame:

```
defswap_rows(df, row1, row2):  
df.iloc[row1], df.iloc[row2] = df.iloc[row2].copy(), df.iloc[row1].copy()  
return df
```

This function will swap the positions of rows in index positions `row1` and `row2` in the DataFrame.

The following example shows how to use this function in practice.

Example: Swap Two Rows in Pandas

Suppose we have the following pandas DataFrame:

```
import pandas as pd  
  
#create DataFrame  
df = pd.DataFrame({'team' : ,
```

```
'points' : ,  
'assists': })
```

```
#view DataFrame
```

```
print(df)
```

```
team points assists
```

```
0 Mavs 12 4
```

```
1 Nets 15 5
```

```
2 Kings 22 10
```

```
3 Cavs 29 8
```

```
4 Heat 24 7
```

```
5 Magic 22 10
```

We can define a `swap_rows()` function to swap the rows in index positions 0 and 4 in the DataFrame:

```
#define function to swap rows
```

```
defswap_rows(df, row1, row2):
```

```
df.iloc, df.iloc = df.iloc.copy(), df.iloc.copy()
```

```
return df
```

```
#swap rows in index positions 0 and 4
```

```
df = swap_rows(df, 0, 4)
```

```
#view updated DataFrame  
print(df)
```

```
team points assists
```

```
0 Heat 24 7
```

```
1 Nets 15 5
```

```
2 Kings 22 10
```

```
3 Cavs 29 8
```

```
4 Mavs 12 4
```

```
5 Magic 22 10
```

Notice that the rows in index positions 0 and 4 have been swapped while every other row has remained in the same position.

Note: Within the `swap_rows()` function, we used the function to select rows in the DataFrame based on their index position.

The following tutorials explain how to perform other common tasks in pandas: