How can a Pandas DataFrame be transposed without changing the index?

Authored by

stats writer

June 27, 2024

ARABPSYCHOLOGY.COM

RECOMMENDED CITATION

stats writer (2024). *How can a Pandas DataFrame be transposed without changing the index?*. PSYCHOLOGICAL SCALES. Retrieved from https://scales.arabpsychology.com/?p=155478

A Pandas DataFrame can be transposed without changing the index by using the "transpose()" method. This method flips the rows and columns of the DataFrame, but preserves the original index values. This allows for easier manipulation and analysis of the data without altering the index values.

Transpose a Pandas DataFrame without Index

You can use the following syntax to transpose a pandas DataFrame and leave out the index:

df.set_index('first_col').T

This simply sets the first column of the DataFrame as the index and then performs the transpose.

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

Example: Transpose Pandas DataFrame without Index

Suppose we have the following pandas DataFrame:

import pandas as pd

#create DataFrame
df = pd.DataFrame({'team': ,
'points': ,

ARABPSYCHOLOGY.COM

'assists': })

#view DataFrame
print(df)

team points assists
0 A 18 5
1 B 22 7
2 C 19 7
3 D 14 9
4 E 14 12
5 F 11 9

If we transpose the DataFrame, the index values will be shown along the top:

#transpose DataFrame
df.T

0 1 2 3 4 5
team A B C D E F
points 18 22 19 14 14 11
assists 5 7 7 9 12 9

To transpose the DataFrame without the index, we can

ARABPSYCHOLOGY.COM

first use the set_index() function:

#transpose DataFrame without indexdf.set_index('team').T

team A B C D E F
points 18 22 19 14 14 11
assists 5 7 7 9 12 9

Notice that the index values are no longer shown along the top of the transposed DataFrame.

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

ARABPSYCHOLOGY.COM