How can I convert a list into a column in Pandas?

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To convert a list into a column in Pandas, you can use the "pd.DataFrame" function and specify the list as the data and the desired column name as the column label. This will create a new column in the dataframe with the values from the list. Additionally, you can use the "pd.Series" function to convert the list into a series and then use the "pd.concat" function to add the series as a new column to the existing dataframe. Both methods allow for easy conversion of a list into a column in Pandas.

Convert List to a Column in Pandas

You can use the following basic syntax to convert a list to a column in a pandas DataFrame:

df = pd.Series(some_list)

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

Example: Convert List to a Column in Pandas

Suppose we have the following pandas DataFrame that contains information about various basketball players:

import pandas as pd

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

'rebounds': })

#view DataFrame
print(df)

team points assists rebounds
0 A 18 5 11
1 B 22 7 8
2 C 19 7 10
3 D 14 9 6
4 E 14 12 6
5 F 11 9 5
6 G 20 9 9
7 H 28 4 12

The following code shows how to convert a list called steals to a column in the DataFrame:

#create list
steals =

#convert list to DataFrame column
df = pd.Series(steals)

#view updated DataFame

print(df)

team points assists rebounds steals
0 A 18 5 11 4
1 B 22 7 8 4
2 C 19 7 10 3
3 D 14 9 6 2
4 E 14 12 6 3
5 F 11 9 5 5
6 G 20 9 9 0
7 H 28 4 12 1

Notice that steals has been added as a new column to the pandas DataFrame.

Note that if the list has fewer elements than the number of rows in the existing DataFrame, then NaN values will be filled in the column:

#create list
steals =

#convert list to DataFrame column
df = pd.Series(steals)

```
#view updated DataFame
print(df)

team points assists rebounds steals
0 A 18 5 11 4.0
1 B 22 7 8 4.0
2 C 19 7 10 3.0
3 D 14 9 6 2.0
4 E 14 12 6 3.0
5 F 11 9 5 NaN
6 G 20 9 9 NaN
7 H 28 4 12 NaN
```

Notice that the last three values in the new steals column are simply NaN values generated by pandas.

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