

How can I add a column with a constant value in Pandas?

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To add a column with a constant value in Pandas, you can use the "df = constant_value" syntax. This will assign the same value to every row in the new column. This method is useful for adding a new feature or label to a dataset, or for filling in missing values with a specific value. It can be used in conjunction with other Pandas functions to manipulate and analyze data efficiently.

Pandas: Add Column with Constant Value

You can use the following methods to add a column with a constant value to a pandas DataFrame:

Method 1: Add One Column with Constant Value

```
df = 5
```

Method 2: Add Multiple Columns with Same Constant Value

```
df[] = 5
```

Method 3: Add Multiple Columns with Different Constant Values

```
#define dictionary of new values
```

```
new_constants = {'new1': 5, 'new2': 10, 'new3': 15}
```

```
#add multiple columns with different constant values
```

```
df = df.assign(**new_constants)
```

The following examples show how to use each method with the following pandas DataFrames:

```
import pandas as pd
```

```
#create DataFrame
```

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

```
6 G 20 9
```

```
7 H 28 4
```

Example 1: Add One Column with Constant Value

The following code shows how to add one column with

a value of 5 for each row:

```
#add column with constant value
```

```
df = 5
```

```
#view updated DataFrame
```

```
print(df)
```

```
team points assists new
```

```
0 A 18 5 5
```

```
1 B 22 7 5
```

```
2 C 19 7 5
```

```
3 D 14 9 5
```

```
4 E 14 12 5
```

```
5 F 11 9 5
```

```
6 G 20 9 5
```

```
7 H 28 4 5
```

The new column called new is filled with the constant value of 5 for each row.

Example 2: Add Multiple Columns with Same Constant Value

The following code shows how to add multiple columns that all have the same constant value of 5:

```
#add three new columns each with a constant value of 5  
df] = 5
```

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

```
team points assists new1 new2 new3
```

```
0 A 18 5 5 5 5
```

```
1 B 22 7 5 5 5
```

```
2 C 19 7 5 5 5
```

```
3 D 14 9 5 5 5
```

```
4 E 14 12 5 5 5
```

```
5 F 11 9 5 5 5
```

```
6 G 20 9 5 5 5
```

```
7 H 28 4 5 5 5
```

Notice that each new column contains the value 5 in each row.

Example 3: Add Multiple Columns with Different Constant Values

The following code shows how to add multiple columns with different constant values:

```
#define dictionary of new values
```

```
new_constants = {'new1': 5, 'new2': 10, 'new3': 15}

#add multiple columns with different constant values
df = df.assign(**new_constants)

#view updated DataFrame
print(df)
```

```
team points assists new1 new2 new3
0 A 18 5 5 10 15
1 B 22 7 5 10 15
2 C 19 7 5 10 15
3 D 14 9 5 10 15
4 E 14 12 5 10 15
5 F 11 9 5 10 15
6 G 20 9 5 10 15
7 H 28 4 5 10 15
```

Notice that each of the three new columns have a different constant value.

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

[How to Add Empty Column to Pandas DataFrame](#)