

How to count occurrences of True and False in a column in pandas?

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In order to count occurrences of True and False in a column in pandas, you can use a combination of the `value_counts()` and `sum()` methods. The `value_counts()` method will count the number of True and False values in the column, while the `sum()` method will add up the number of each result and return the total count. By combining these two methods together, you can easily count the occurrences of True and False in a column in pandas.

You can use the following basic syntax to count the occurrences of True and False values in a column of a pandas DataFrame:

```
df.value_counts()
```

This will count the occurrences of both True and False values.

If you only want to count one of the specific values, you can use the following syntax:

```
#count occurrences of True
```

```
df.values.sum()
```

```
#count occurrences of False
```

```
(~df).values.sum()
```

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

Example: Count Occurrences of True and False 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': ,
```

```
'all_star': })
```

```
#view DataFrame
```

```
print(df)
```

```
team points all_star
```

```
0 A 18 True
```

```
1 A 22 False
```

2 A 19 False
3 B 14 True
4 B 14 False
5 C 28 True
6 C 20 True

We can use the **value_counts()** function to count the occurrences of both True and False values in the **all_star** column:

#count occurrences of True and False in all_star column

df.value_counts()

True 4

False 3

Name: all_star, dtype: int64

From the output we can see:

The value True occurs **4** times in the **all_star** column.

The value False occurs **3** times in the **all_star** column.

You can also use the following syntax to only count the occurrences of True:

#count occurrences of True in all_star column

df.values.sum()

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And you can use the following syntax to only count the occurrences of False:

#count occurrences of False in all_star column

(~df).values.sum()

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