

Fix: Cannot perform 'rand_' with a dtyped [int64] array and scalar of type [bool]

Authored by
stats writer

May 21, 2024

RECOMMENDED CITATION

stats writer (2024). *Fix: Cannot perform 'rand_' with a dtyped [int64] array and scalar of type [bool]*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=144669>

Fix: Cannot perform 'rand_' with a dtyped array and scalar of type

One error you may encounter in Python is the following:

TypeError:Cannot perform 'rand_' with a dtyped array and scalar of type

This error usually occurs when you attempt to filter a pandas DataFrame using multiple conditions but fail to use parenthesis around each individual condition.

The following example shows how to fix this error in practice.

How to Reproduce the Error

Suppose we have the following pandas DataFrame:

```
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 A 22 7 8
2 A 19 7 10
3 A 14 9 6
4 B 14 12 6
5 B 11 9 5
6 B 20 9 9
7 B 28 4 12
```

Now suppose we attempt to filter the DataFrame to only show rows where the team column is equal to 'A' and the points column is greater than 15:

#attempt to filter DataFrame

df.loc

TypeError:Cannot perform 'rand_' with a dtyped array and scalar of type

We receive an error because we didn't place parenthesis around each individual condition.

How to Fix the Error

To fix this error, we just need to make sure we place parenthesis around each individual condition when performing the filter:

#filter DataFrame

df.loc

```
team points assists rebounds
0 A 18 5 11
1 A 22 7 8
2 A 19 7 10
```

Notice that we're able to successfully filter the DataFrame to only show the rows where team is equal to 'A' and where points is greater than 15.

Note that we also need to place parenthesis around each individual condition if we're using an or "|" operator instead:

#filter rows where team is equal to 'A' or points is greater than 15

df.loc

```
team points assists rebounds
0 A 18 5 11
1 A 22 7 8
2 A 19 7 10
3 A 14 9 6
6 B 20 9 9
7 B 28 4 12
```

Notice that we avoid any errors once again.

The following tutorials explain how to fix other common errors in pandas: