

How to Fill NaN Values with Mode in Pandas?

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Filling NaN values with the mode in pandas can be done by using the `fillna()` function to replace the NaN values with the mode of the dataframe. This is done by passing the mode value to the `fillna()` function. The mode is calculated by using the `mode()` function on the dataframe, and the resulting mode is passed as an argument to the `fillna()` function. The `fillna()` function will then replace the NaN values with the mode value.

You can use the following syntax to replace NaN values in a column of a pandas DataFrame with the mode value of the column:

```
df = df.fillna(df.mode())
```

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

Example: Replace Missing Values with Mode in Pandas

Suppose we have the following pandas DataFrame with some missing values:

```
import numpy as np  
import pandas as pd
```

```
#create DataFrame with some NaN values  
df = pd.DataFrame({'rating': ,  
'points': ,  
'assists': ,  
'rebounds': })
```

```
#view DataFrame  
df
```

```
rating points assists rebounds  
0 NaN 25.0 5.0 11  
1 85.0 NaN 7.0 8  
2 NaN 14.0 7.0 10  
3 88.0 16.0 NaN 6  
4 94.0 27.0 5.0 6  
5 90.0 20.0 7.0 9  
6 75.0 12.0 6.0 6  
7 75.0 15.0 9.0 10  
8 87.0 14.0 9.0 10  
9 86.0 19.0 7.0 7
```

We can use the **fillna()** function to fill the NaN values in the **rating** column with the mode value of the **rating** column:

```
#fill NaNs with column mode in 'rating' column
```

```
df = df.fillna(df.mode())
```

```
#view updated DataFrame
```

```
df
```

```
rating points assists rebounds
```

```
0 75.0 25.0 5.0 11
```

```
1 85.0 NaN 7.0 8
```

```
2 75.0 14.0 7.0 10
```

```
3 88.0 16.0 NaN 6
```

```
4 94.0 27.0 5.0 6
```

```
5 90.0 20.0 7.0 9
```

```
6 75.0 12.0 6.0 6
```

```
7 75.0 15.0 9.0 10
```

```
8 87.0 14.0 9.0 10
```

```
9 86.0 19.0 7.0 7
```

The mode value in the **rating** column was **75** so each of the NaN values in the **rating** column were filled with this value.

Note: You can find the complete online documentation for the **fillna()** function .