How can boolean values be converted to integer values in Pandas?

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Boolean values can be converted to integer values in Pandas by using the .astype() function. This function allows users to specify the data type that they want their data to be converted to. By specifying "int" as the data type, boolean values will be converted to integer values, with True being represented as 1 and False as 0. This is useful for data analysis and manipulation, as it allows for easier comparison and calculation of values.

Convert Boolean Values to Integer Values in Pandas

You can use the following basic syntax to convert a column of boolean values to a column of integer values in pandas:

df.column1 = df.column1.replace({True: 1, False: 0})

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

Example: Convert Boolean to Integer in Pandas

Suppose we have the following pandas DataFrame:

import pandas as pd

#create DataFrame
df = pd.DataFrame({'team': ,
'points': ,
'playoffs': })

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#view DataFrame
df

We can use to quickly check the data type of each column:

#check data type of each column
df.dtypes

team object
points int64
playoffs bool
dtype: object

We can see that the 'playoffs' column is of type boolean.

We can use the following code to quickly convert the True/False values in the 'playoffs' column into 1/0 integer values:

#convert 'playoffs' column to integer
df.playoffs = df.playoffs.replace({True: 1, False: 0})

#view updated DataFrame

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df

team points playoffs
0 A 18 1
1 B 22 0
2 C 19 0
3 D 14 0
4 E 14 1
5 F 11 0
6 G 20 1

Each True value was converted to 1 and each False value was converted to 0.

We can use dtypes again to verify that the 'playoffs' column is now an integer:

#check data type of each columndf.dtypes

team object
points int64
playoffs int64
dtype: object

We can see that the 'playoffs' column is now of type

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int64.

Additional Resources

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

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