

How can I convert epoch values to datetime in Pandas?

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The process of converting epoch values to datetime in Pandas involves using the built-in function "to_datetime" to convert the epoch values, which represent the number of seconds since January 1st, 1970, to a more readable date and time format. This can be useful for analyzing and visualizing time series data in a more intuitive manner.

Pandas: Convert Epoch to Datetime

You can use the following basic syntax to convert epoch time to a recognizable datetime in pandas:

```
df = pd.to_datetime(df, unit='s')
```

For example, this syntax will convert an epoch time of 1655439422 to a pandas datetime of 2022-06-17 04:17:02.

This format is more recognizable as a date and a time rather than a long string of numbers.

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

Example: Convert Epoch to Datetime in Pandas

Suppose we have the following pandas Dataframe that contains information about the total sales of some product on specific dates and times:

```
import pandas as pd

#create DataFrame
df = pd.DataFrame({'date': ,
'sales': })

#view DataFrame
print(df)

date sales
0 1655439422 120
1 1655638422 150
2 1664799422 224
3 1668439411 290
4 1669939422 340
5 1669993948 184
```

Currently the values in the date column are formatted as epoch times.

To convert the times from epoch to a pandas datetime format, we can use the following syntax:

```
#convert values in date column from epoch to datetime
df = pd.to_datetime(df, unit='s')
```

#view updated DataFrameprint(df)

date sales

```
0 2022-06-17 04:17:02 120
1 2022-06-19 11:33:42 150
2 2022-10-03 12:17:02 224
3 2022-11-14 15:23:31 290
4 2022-12-02 00:03:42 340
5 2022-12-02 15:12:28 184
```

Notice that the values in the date column are now recognizable dates and times.

Note that most epoch times are stored as the number of seconds since 1/1/1970.

By using the argument `unit='s'` in the `to_datetime()` function, we're explicitly telling pandas to convert the epoch to a datetime by calculating the number of seconds since 1/1/1970.

Note: You can find the complete documentation for the pandas `to_datetime()` function .

The following tutorials explain how to perform other

common tasks in pandas:

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