how do i merge a single row of data in python pandas into an existing dataframe?

You can merge a single row of data into an existing pandas DataFrame using either:

#### 1. Appending a Dictionary or Series (Recommended for single rows):

If your single row is in the form of a dictionary or a pandas Series, use loc, append (deprecated), or concat:

Example using loc (best for single rows):

```
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python
import pandas as pd
# Existing DataFrame
df = pd.DataFrame({
    'name': ['Alice', 'Bob'],
    'age': [25, 30]
})
# New single row as a dictionary
new_row = {'name': 'Charlie', 'age': 35}
# Add it using loc
df.loc[len(df)] = new_row
print(df)
```

## 2. Using pd.concat() with a one-row DataFrame:

```
python
new_row_df = pd.DataFrame([new_row]) # Wrap the dict in a list to make it a one-row Data
df = pd.concat([df, new_row_df], ignore_index=True)
```

### **Important Notes:**

- Always set ignore\_index=True if you want a clean index after merging.
- append() is deprecated since pandas 1.4.0 and removed in 2.0, so prefer concat() or loc.

Let me know what form your single row is in (dict, Series, DataFrame, list), and I can tailor the example.

how do i convert any date-time columns into a datetime data type?

can do the following:

To convert any datetime-like columns in a pandas DataFrame into proper datetime64[ns] type, you

```
Automatically detect and convert datetime columns:
 python
  import pandas as pd
 # Example DataFrame
 df = pd.DataFrame({
      'name': ['Alice', 'Bob'],
      'created_at': ['2023-01-01', '2023-05-01'],
      'updated_at': ['2023-01-05 14:30:00', '2023-05-03 09:15:00'],
      'notes': ['ok', 'pending']
 })
 # Convert columns that look like dates
 for col in df.columns:
     if df[col].dtype == 'object':
         try:
             df[col] = pd.to_datetime(df[col], errors='raise')
         except (ValueError, TypeError):
             pass # skip columns that can't be parsed as dates
 print(df.dtypes)
```

#### If you know which columns to convert:

Or: Convert known datetime columns manually

python

```
df['created_at'] = pd.to_datetime(df['created_at'])
df['updated_at'] = pd.to_datetime(df['upda <math>\psi_at'])
```

## errors='raise': throws an error if conversion fails (default).

conversion cleaner.

python

python

that's also a neat trick.

mean

min

max

**%** Options

- errors='coerce': converts invalid formats to NaT.
- infer\_datetime\_format=True : can speed up parsing if format is consistent.

Convert a single column to categorical:

df['your\_column'] = df['your\_column'].astype('category')

Let me know if your datetime columns come from a CSV, Excel, or JSON — I can help make the

Remind me how to convert object data to categorical data type

Sure! To convert object columns (usually strings) into categorical data type in pandas, here's how:

```
Convert all object columns to categorical (bulk conversion):
```

# df[col] = df[col].astype('category')

for col in df.select\_dtypes(include='object').columns:

Performance boost: speeds up groupby and comparisons.

- Why use categorical? • Memory efficient: especially helpful for columns with repeated string values (e.g., "Yes", "No", etc.)
- Let me know if you want to automatically convert only columns with low cardinality (few unique values) —

hello?

Hey! Yes, you can absolutely use .describe() for a quick summary of numeric variables — but by

default, it gives you count, mean, std, min, 25%, 50% (median), 75%, and max. So technically, .describe() already includes:

can i use describe() to get the mean, median, minimum value, and

maximum value for each numeric variable in one line of code?

```
    median (as 50%)
```

```
✓ One-liner:
 python
 df.describe()
```

df.describe().loc[['mean', '50%', 'min', 'max']]

You can filter the output like this:

```
•• If you want only mean, median, min, and max in one line:
```

python

This gives you just those 4 stats for each numeric column in one line.

Let me know if you want to include non-numeric columns too, or format the result!