

```
import pandas as pd
import matplotlib.pyplot as plt
```

```
df=pd.read_csv("insurance.csv")
```

```
print("Dataset loaded successfully!")
```

```
Dataset loaded successfully!
```

df

	age	sex	bmi	children	smoker	region	charges
0	19	female	27.900	0	yes	southwest	16884.92400
1	18	male	33.770	1	no	southeast	1725.55230
2	28	male	33.000	3	no	southeast	4449.46200
3	33	male	22.705	0	no	northwest	21984.47061
4	32	male	28.880	0	no	northwest	3866.85520
...
1333	50	male	30.970	3	no	northwest	10600.54830
1334	18	female	31.920	0	no	northeast	2205.98080
1335	18	female	36.850	0	no	southeast	1629.83350
1336	21	female	25.800	0	no	southwest	2007.94500
1337	61	female	29.070	0	yes	northwest	29141.36030

1338 rows × 7 columns

```
df['age'].mean()
```

```
np.float64(39.20702541106129)
```

```
df.isnull()
```

	age	sex	bmi	children	smoker	region	charges
0	False	False	False	False	False	False	False
1	False	False	False	False	False	False	False
2	False	False	False	False	False	False	False
3	False	False	False	False	False	False	False
4	False	False	False	False	False	False	False
...
1333	False	False	False	False	False	False	False
1334	False	False	False	False	False	False	False
1335	False	False	False	False	False	False	False
1336	False	False	False	False	False	False	False
1337	False	False	False	False	False	False	False

1338 rows × 7 columns

```
df.nunique()
```

	0
age	47
sex	2
bmi	548
children	6
smoker	2
region	4
charges	1337

dtype: int64

```
df['age'].value_counts()
```



```

count
age
18    69
19    68

```

```
df['sex'].value_counts()
```

```

count
sex
male    676
female  2962
dtype: int64

```

```
sns.distplot(df['age'])
```

```
/tmp/ipython-input-3234920688.py:1: UserWarning:
```

```
distplot is a deprecated function and will be removed in seaborn v0.14.0.
```

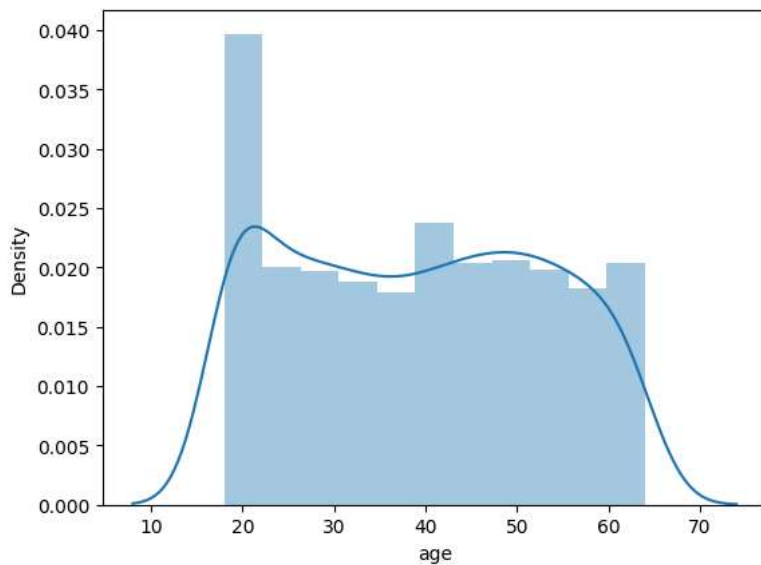
Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see <https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751>

```

sns.distplot(df['age'])
<Axes: xlabel='age', ylabel='Density'>

```



Double-click (or enter) to edit

```
sns.distplot(df['age'])
```

```

20    20
35    25
58    25
37    25
59    25
39    25
36    25
38    25
62    23
60    23
63    23

```

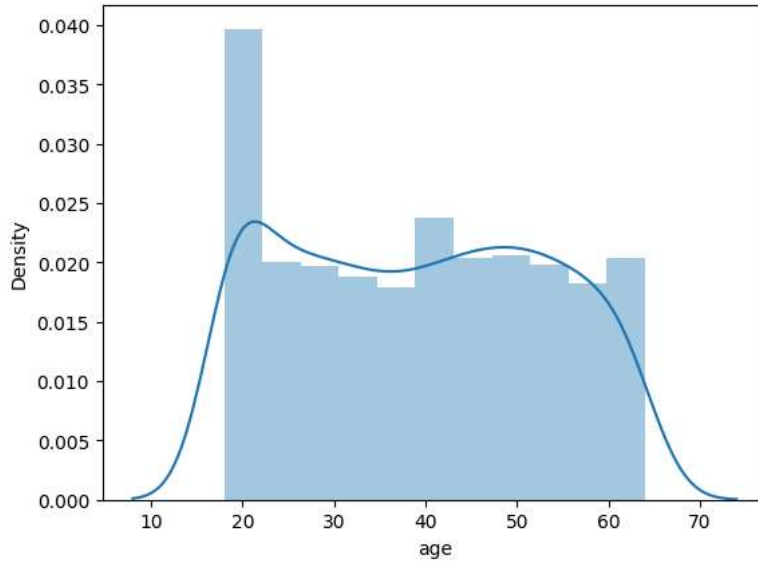
```
/tmp/ipython-input-3234920688.py:1: UserWarning:
```

```
61 23
64 22
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.
```

```
type int64
Please adapt your code to use either `displot` (a figure-level function with
styling flexibility) or `histplot` (an axes-level function for histograms).
```

For a guide to updating your code to use the new functions, please see
<https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751>

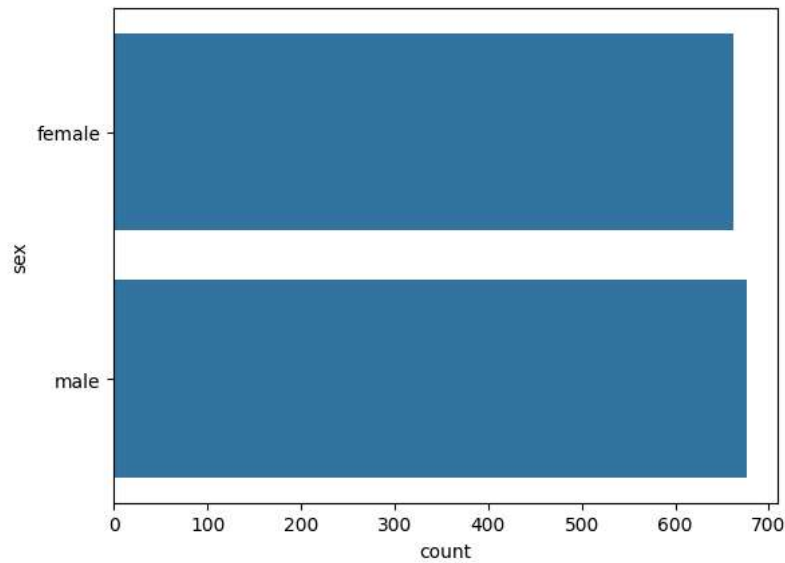
```
sns.distplot(df['age'])
<Axes: xlabel='age', ylabel='Density'>
```



Start coding or [generate](#) with AI.

```
sns.countplot(df['sex'])
```

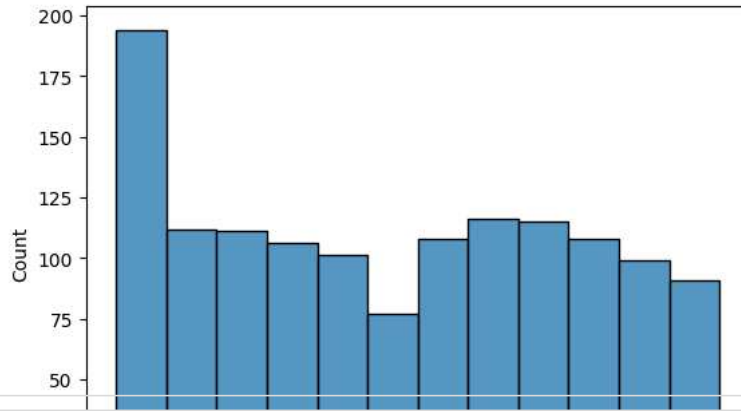
```
<Axes: xlabel='count', ylabel='sex'>
```



Start coding or [generate](#) with AI.

```
sns.histplot(df['age'])
```

<Axes: xlabel='age', ylabel='Count'>



Start coding or [generate](#) with AI.

```
sns.boxplot(df['region'])
```

<Axes: ylabel='region'>

