```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
train="/content/insurance.csv"
train=pd.read_csv(train)
```

```
train.head()
```

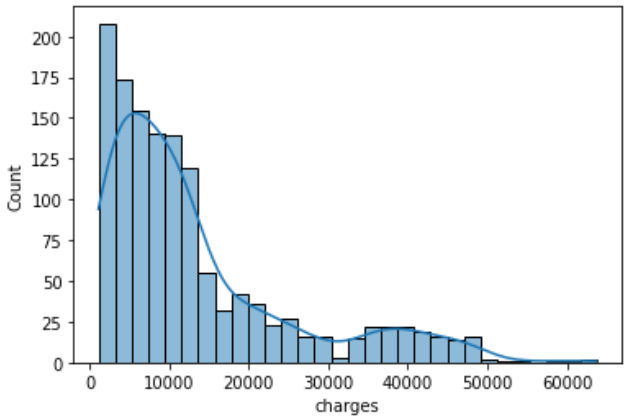
	age	sex	bmi	children	smoker	region	charges
0	19	female	27.900	0	yes	southwest	16884.92400
1	18	male	33.770	1	no	southeast	1725.55230
2	28	male	33.000	3	no	southeast	4449.46200
3	33	male	22.705	0	no	northwest	21984.47061
4	32	male	28.880	0	no	northwest	3866.85520

```
train.tail()
```

	age	sex	bmi	children	smoker	region	charges
1333	50	male	30.97	3	no	northwest	10600.5483
1334	18	female	31.92	0	no	northeast	2205.9808
1335	18	female	36.85	0	no	southeast	1629.8335
1336	21	female	25.80	0	no	southwest	2007.9450
1337	61	female	29.07	0	yes	northwest	29141.3603

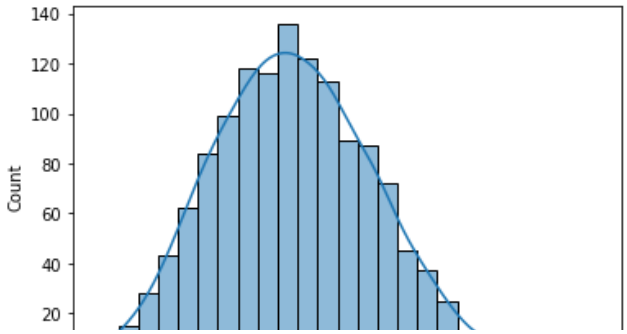
```
sns.histplot(train, x = "charges", kde = True)
```

```
<AxesSubplot:xlabel='charges', ylabel='Count'>
```



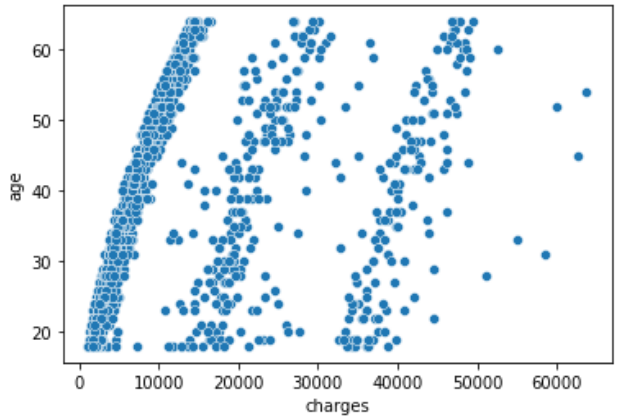

```
sns.histplot(train, x = "bmi", kde = True)
```

```
<AxesSubplot:xlabel='bmi', ylabel='Count'>
```



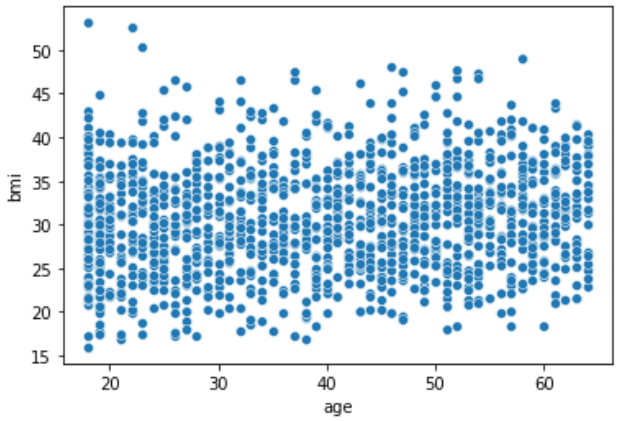

```
sns.scatterplot(data=train, x="charges", y="age")
```

```
<AxesSubplot:xlabel='charges', ylabel='age'>
```




```
sns.scatterplot(data=train, x="age", y="bmi")
```

```
<AxesSubplot:xlabel='age', ylabel='bmi'>
```




```
sns.scatterplot(data=train, x="charges", y="bmi")
```

```
<AxesSubplot:xlabel='charges', ylabel='bmi'>
```


```
sns.relplot(y='age',x='charges',hue='smoker' ,data=train)
```

```
<seaborn.axisgrid.FacetGrid at 0x7f6893dea610>
```