plt.scatter(df.age,df.bought_insurance,marker='+')

<matplotlib.collections.PathCollection at 0x7d3ddcfb3c40>

x_train,x_test,y_train,y_test=train_test_split(df[['age']],df[['bought_insurance']],test_size= 0.2)

x_test

```
age
4 46 11.
9 61
```

._ __

55

0 2225 54

40

model=LogisticRegression()

from sklearn.linear_model import LogisticRegression

x_train

Name: age, dtype: int64

model.fit(x_train,y_train)

/usr/local/lib/python3.10/dist-packages/sklearn/utils/validation.py:1143: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to y = column_or_1d(y, warn=True)

v LogisticRegression LogisticRegression()

model.predict([[42]])

/usr/local/lib/python3.10/dist-packages/sklearn/base.py:439: UserWarning: X does not have valid feature names, but LogisticRegression was fitted with feature names warnings.warn(

array([1])