1. **Assuming df is your DataFrame and 'MEDV' is your target variable**

X = df.drop('MEDV', axis=1) # Features  
y = df['MEDV'] # Target variable

1. **Splitting the dataset into training and testing sets**

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, test\_size=0.2, random\_state=42)

1. **Creating the regression model**

model = LinearRegression()

1. **Training the model**

model.fit(X\_train, y\_train)

1. **Predicting on the test set**

y\_pred = model.predict(X\_test)

1. **Evaluating the model**[**¶**](http://localhost:8888/notebooks/LinearRegressionDS4.ipynb#Evaluating-the-model)

mse = mean\_squared\_error(y\_test, y\_pred)  
r2 = r2\_score(y\_test, y\_pred)

print(f"Mean Squared Error: {mse}")  
print(f"R-squared: {r2}")