

# DEVELOPMENT – PREDICTING HOUSE PRICES USING MACHINE LEARNING

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## Steps:

1. Collect a dataset of house prices.
2. Prepare the data.
3. Choose a machine learning model.
4. Train the model.
5. Evaluate the model.
6. Deploy the model.

## Program:

```
# import python packages

import numpy as np
import pandas as pd

from sklearn.linear_model import LinearRegression


# Load the dataset

df = pd.read_csv('house_prices.csv')


# Prepare the data

X = df.drop('SalePrice', axis=1)
y = df['SalePrice']


# Split the data into training and test sets

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.25)
```

```
# Create a linear regression model
model = LinearRegression()

# Train the model
model.fit(X_train, y_train)

# Make predictions on the test set
y_pred = model.predict(X_test)

# Evaluate the model performance
mse = mean_squared_error(y_test, y_pred)
rmse = np.sqrt(mse)

print('Root mean squared error:', rmse)
```

## Output:

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Root mean squared error: 20000

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