PREDICTING HOUSE PRICES USING MACHINE LEARNING.

INRODUCTION:

predicting house prices using machine learning is a valuable application in the real estate industry. This technology can assist buyers with sellers and real estate professionals in making informed decisions regarding property investments.

1.Data collection:

Gather a dataset containing information about houses and their corresponding prices.eg.no of bedrooms, square footage and location.

2.Data processing:

clean and prepare data.it includes handling missing values and scaling numerical features.

3.Feature selection/Engineering:

Choose relevant features or create new it can improve prediction accuracy.

4.Splitting data:

Divide the dataset into training and testing sets to evaluate the model's performance.

5.Model selection:

Common choices include linear regression, decision trees and gradient boosting.

6.Training:

Train the chosen model on the training data. The models learns to make predictions based on the input features.

7.Predicting:

Assess the model's performance using metrics like Mean Absolute Error(MAE) , Mean Squared Error(MSE) OR Root Mean Squared Error(RMSE) on the test data.

8.Hyperparameter tuning:

Optimise the model by adjusting hyper parameter to improve its performance.

9.Prediction:

Once satisfied with the model's performance. use it to make the

Prediction's on new , unseen data.

10.Deployment:

If you want to use the model in a real-world scenario deploy it as part of a web application or another appropriate platform.

Conclusion:

The machine learning to predict the house price based on the given dataset is executed. Any house price in any location can be predicted with minimum error by giving appropriate dataset.