



**SUPERIOR
UNIVERSITY**

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Section: BSAI-4A

Subject: Programming for Artificial
Intelligence

Lab Task: 1

Task1: House Price Prediction

Libraries Used:

- pandas for handling tabular data.
- numpy for numerical data.
- train_test_split for splitting data into training and testing sets.
- LabelEncoder for encoding categorical variables.
- LinearRegression for building a regression model.

Dropped Values:

First of all, we have dropped all the unnecessary columns that we do not need/ or have no effect on pricing.

The Columns Include:

Id
Alley
PoolQC
Fence
MiscFeature

Filling Values:

Filled Null Values

- Where data type is object, the values are filled by using mode.
- Where data types are int/float (numeric), the values are filled by using median.

Label Encoding:

Because model works with numbers not text. We use label encoding to convert categorical value to numeric.

Train, Test, Split:

Rest is splitting data.

80 percent is used for training.

20percent is used for testing.

Model:

Used *Linear Regression Model*.

Trained it using X_train and y_train.

At last tested data, and saved data in the sample submission.csv format.

Kaggle Submission:

Submitted the csv submission file to Kaggle.



submission.csv

Complete · now

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