**AI-HOUSE PRICE PRIDICTION USING MACHINE LEARNING**

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| **Date** | **26-09-2023** |
| **Team ID** | **935** |
| **Project Title** | **House Price prediction using ML** |

**Project Overview:**

This project is an House Price Prediction that uses the Linear Regression algorithm to Predict the prices of the houses based on different Parameters. The project is divided into four phases: Ideation, Design and Innovation, Development, and Model Training.

**Phase 1: Ideation Phase**

**Problem Statement:** Develop a machine learning model that can predict house prices with a high level of accuracy.

**Design Thinking:** We brainstormed and conceptualized the project, considering design and innovation strategies.

**Phase 2: Design and Innovation**

In this phase, we outlined the design and innovation strategies that will be used to classify house prediction using machine learning.

**Phase 3: Development (Part 1)**

**Jupyter File:**

We created a Jupyter notebook for data preprocessing and loading.

**Data Exploration:**

Explored and visualized the dataset.

**Platform:**

We ran the Jupyter notebook in Google Colab.

**Dependencies:**

Imported necessary libraries.

**Dataset:**

Loaded and explored the dataset.

**Phase 4: Model Training:**

**Machine Learning Algorithm:**

We selected the Linear algorithm for model training.

**Jupyter File:**

Created a new Jupyter notebook for the model training.

**Dependencies:**

Imported relevant dependencies.

**NLTK Resources:**

Downloaded and utilized NLTK resources for text preprocessing.

**Training:**

Trained a Naive Bayes classifier.

**Evaluation:**

Evaluated the prediction performance.

**Results:**

Displayed the evaluation results in Google Colab.

GitHub: Uploaded the project to GitHub for sharing and collaboration.

Running the Code

**To run this code, follow these steps:**

Clone the GitHub repository to your local machine:

bash

Copy code

git clone <https://github.com/yourusername/ai-house>-price-prediction.git

Open the project folder in your Jupyter Notebook environment (e.g., Google Colab).

Navigate to the "Development" or "Model Training" phase in the Jupyter notebook and execute the code cells step by step.

Make sure to install the required dependencies mentioned in the notebook using !pip install or !conda install.

Ensure that you have downloaded the necessary NLTK resources for text preprocessing.

Once the model is trained and evaluated, you can test it on new data for spam classification.

**Dependencies:**

The following dependencies are required to run this project:

Python (>=3.6)

Jupyter Notebook

Pandas

NumPy

Matplotlib

NLTK

Scikit-learn

You can install these dependencies using pip:

**Copy code :**

pip install jupyter pandas numpy matplotlib nltk scikit-learn