🔷 Project Title:

Flask Application for Housing Price Prediction using Machine Learning

🔷 Project Description:

This project is a web application that lets you input properties of a house (like area, number of bedrooms, bathrooms, parking, furnishing, etc) and then predicts its selling price**.**

◆ Technology Used:

✅ **Python**

✅ **Flask** (for developing the web application's backend and routing requests).

✅ **Scikit-Learn** (Linear Regression) (for training the regression model).

✅ **Pandas and Numpy** (for data manipulation).

✅ **Jinja2** (Flask's template engine for rendering HTML).

✅ **HTML** (for designing the UI).

◆ Features:

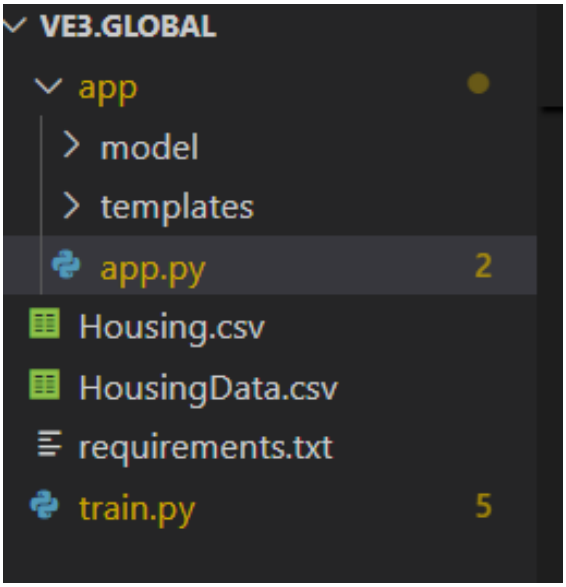
✅ User enters:

- area (square feet)
- number of bedrooms
- number of bathrooms
- number of stories
- main road (yes or no)
- guestroom (yes or no)
- basement (yes or no)
- hotwaterheating (yes or no)
- **a**irconditioning (yes or no)
- parking spaces
- prefarea (yes or no)
- furnishings (furnished, semi-furnished, unfurnished)

✅ The application converts these inputs into a format suitable for the trained regression model.

✅ The regression model then produces a predicted price**.**

◆ File Structure:



◆ How it works:

1) Model Training (train.py)
2) Flask Application (app/app.py)
3) HTML Template
    a. index.html : Provides form for entering all the features
    b. result.html: Display the predicted result.