Apartment price prediction

Introduction:

The Apartment Price Prediction system is a machine learning-based web application designed to estimate

the market value of apartments based on various features like location, size, number of rooms, and more. It

assists buyers, sellers, and real estate agents by providing accurate price predictions using historical data

and trained models.

Project description

This project leverages machine learning algorithms to predict apartment prices. The frontend of the

application is built using HTML, CSS, JavaScript and styled using Tailwind CSS and Bootstrap to ensure a

modern and responsive UI. The backend is developed with Flask, which handles data input, prediction logic,

and model integration.

Users can input apartment features such as location, area (sqft), number of bedrooms and bathrooms, floor

number, and amenities. The system processes this input and uses a trained regression model to predict the

estimated price.

The system includes the following main pages:

- Home

- About Us

- Price Prediction

- Contact Us

- Login/Signup

Group member:

Nadia Afrin Riya (C223214)
Morsheda Akter Prity (C223221)

Features:

- Real-time apartment price prediction using trained ML model

- Clean and responsive web interface

- User-friendly input form for apartment features

- Accurate prediction using regression analysis

- Admin panel for model updates (optional)

- Pages for About Us, Home, Contact, and Predictio

Technologies Used:

- Python 3

- Flask - lightweight web framework for backend development

- Scikit-learn - for machine learning model development

- Pandas / NumPy - for data processing and handling

- Tailwind CSS - for modern UI styling

- Bootstrap - for responsive design

- HTML / CSS / JavaScript - for frontend developmen