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House Price Prediction Using Machine Learning

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Abstract: In today's real estate market, predicting the accurate price of a house has become an important task, as property rates are continuously changing based on various factors. Every buyer or seller expects to know the correct market value before making any decision, but manual estimation often leads to confusion and uncertainty. To solve this problem, our project titled "House Price Prediction using Machine Learning" is designed to estimate the selling price of a house based on its features and specifications.

With the growing demand for real estate data analysis, this project helps users make better financial decisions using Artificial Intelligence. The system takes various input features such as total area (in square feet), number of bedrooms, number of bathrooms, stories, parking spaces, availability of main road, presence of a guest room or basement, hot water heating, air conditioning, furnishing status, and preferred area. These features directly influence the house price, and our model learns their relationships from the dataset.

In this project, we used Python as the core programming language along with libraries like Pandas, NumPy, and scikit-learn. The data preprocessing phase involved handling missing values, encoding categorical variables, and normalizing data to improve accuracy. After cleaning and analysing the data, a Linear Regression model was trained to predict continuous house prices. The model's performance was evaluated using metrics like R² Score and Mean Absolute Error (MAE) to ensure accurate predictions. Once the model gave satisfactory results, it was saved using Pickle for later use. For deployment, a Flask web application was created with an interactive user interface built using HTML, CSS, and JavaScript. Users can enter the property details, and after clicking the "Predict" button, the trained model processes the data in the backend and instantly displays the estimated house price on the screen.

Overall, this project demonstrates how Machine Learning and Data Science can be applied in real-life scenarios like real estate valuation. It not only automates the pricing process but also provides users with reliable and data-driven predictions. Hence, House Price Prediction using Machine Learning serves as a smart, efficient, and modern approach to understanding property market trends and making informed buying or selling decisions..

Keywords: NumPy, Pandas, Jupyter, Scikit-learn

I. INTRODUCTION

Numerous factors, such as the total area, number of bedrooms and bathrooms, availability of amenities, furnishing status, and location, affect the price of a house. In this project, we create a predictive model that estimates the selling price of a house using a dataset that includes historical property records. This predictive tool can help buyers and sellers make informed decisions by understanding the key factors influencing house prices and can also assist real estate agents in automating property valuation.

Using robust Python modules like Pandas, NumPy, and Scikit-learn, the project is implemented. Pandas is used for data preprocessing and manipulation, ensuring the dataset is clean, organized, and ready for analysis. Scikit-learn offers machine learning tools to create prediction models, while NumPy facilitates numerical computations. The dataset

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comprises parameters like area in square feet, number of bedrooms, bathrooms, stories, parking spaces, availability of main road, presence of a guest room or basement, hot water heating, air conditioning, furnishing status, and preferred area. Together, these features influence the price of a house.

Data preprocessing, which addresses missing values, categorical encoding, and normalization, is the first step in the project's workflow. Exploratory Data Analysis (EDA) is performed to understand feature relationships and correlations. To find the most accurate predictive model, machine learning methods such as Linear Regression are applied. Once trained, the model can forecast the expected selling price of a property based on user-provided inputs.

II. LITERATURE SURVEY

Kumar and Singh et al [1] propose a regression-based model for house price prediction using real estate datasets, demonstrating how features such as area, number of bedrooms, and location significantly influence pricing. Their work highlights the importance of proper data preprocessing and feature selection to improve model accuracy.

Patel et al [2] investigate the use of ensemble learning methods, such as Random Forest and Gradient Boosting, for predicting property values. Their study shows that combining multiple models can reduce prediction error and enhance robustness, especially when dealing with heterogeneous datasets.

Rao and Kaur et al [3] demonstrate an end-to-end pipeline for house price prediction leveraging cloud-based platforms for data storage and model deployment. They describe data cleaning, feature engineering, and model training using linear and tree-based regressors, reporting that ensemble models often outperform single models in predictive accuracy. Sharma and Mehta et al [4] analyze the effect of socio-economic and neighborhood factors on real estate pricing. Using large-scale datasets, they show that proximity to amenities, schools, and transportation hubs can significantly increase house prices, emphasizing the role of non-structural features in prediction models.

Lee et al [5] explore deep learning techniques, including artificial neural networks, for property price prediction. They demonstrate that when combined with extensive feature sets, neural networks can capture complex nonlinear relationships, outperforming traditional regression models in large datasets.

Chatterjee and Roy et al [6] propose a hybrid system integrating machine learning with web-based applications to predict house prices. They highlight the importance of creating interactive interfaces where users can input property details and receive instant price predictions, illustrating the practical utility of AI-driven real estate tools.

Kulkarni et al [7] focus on comparative analysis of different regression algorithms—Linear Regression, Decision Tree Regression, and Support Vector Regression—for real estate valuation. Their findings indicate that while Linear Regression provides simplicity and interpretability, tree-based models often achieve higher predictive accuracy.

Ghosh et al [8] develop a predictive model for urban property pricing by incorporating environmental and demographic factors along with structural features. Their study emphasizes the significance of integrating multiple dimensions of data to improve prediction reliability.

Wang and Li et al [9] use Gradient Boosting Machines (GBM) to forecast house prices in metropolitan areas. They show that GBM can efficiently handle non-linear relationships and interactions among features, making it suitable for complex real estate datasets.

Zhang et al [10] explore the use of geospatial data for house price prediction, demonstrating that location-based features, such as distance from city center, transportation, and local amenities, significantly improve predictive performance.

Singh et al [11] propose a machine learning pipeline combining feature selection, hyperparameter tuning, and cross-validation to optimize house price prediction models. Their approach reduces overfitting and improves generalization to unseen data.

Chen and Kumar et al [12] examine the application of Support Vector Regression (SVR) for real estate valuation. They find that SVR performs well for datasets with high dimensionality and limited samples, offering accurate predictions when properly tuned.

Reddy et al [13] present an AI-based property valuation tool that integrates linear regression with a web interface. They highlight the importance of user-friendly deployment for practical adoption of predictive models.

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Ahmed et al [14] analyze historical property transactions using machine learning, emphasizing the role of time-series trends and market dynamics in predicting house prices. Their study shows that incorporating temporal factors improves forecast accuracy.

Patel and Desai et al [15] propose an end-to-end system for automated house price prediction using Python, Flask, and machine learning algorithms. They integrate Linear Regression and Random Forest models to provide users with instant and reliable predictions through an interactive web application.

Table1: Comparison of House Price Prediction Models

Paper / Project	System	Architecture	Cost	Ease of Implementation	Performance	User Experience	Limitations
Kumar	Linear Regression- based predictor	Simple regression	Low	Easy	Moderate accuracy	Simple and interpretable	Limited to linear relationships
Patel et al [2]	Random Forest Regression	Ensemble learning	Moderate	Moderate	High accuracy	Reliable predictions	Requires larger dataset, risk of overfitting
Kaur et al	_	Decision Tree & Gradient Boosting	Moderate	Moderate (cloud integration)	Accurate prediction	Web-based interface possible	Computationally intensive for large data
ll I	Socio- economic Feature Model	Hybrid (ML + Feature Engineering)	High	Moderate	Good prediction incorporating neighborhood data	User-friendly when deployed online	Needs comprehensive data collection
Lee et al [5]		Deep Learning (ANN)	High	Moderate	High accuracy		Lacks interpretability ("black box")
and Roy et al [6]	Web- integrated ML Predictor	Linear Regression + Flask	Moderate	Easy	Moderate accuracy	Interactive web	Model limited by dataset features
	Comparative Regression System	Linear Regression, SVR, Decision Tree	Low– Moderate	Moderate	Varies per algorithm		Some models may underperform on large datasets
Ghosh et al [8]	Multi- feature Predictive Model	Regression with Environmental &Demographic Data	Moderate	Moderate	High	Considers multiple factors	Requires extensive feature collection
	Gradient Boosting Predictor	GBM-based	Moderate	Moderate	High	Robust for complex datasets	Complex hyperparameter tuning required
Zhang et	Geospatial	Regression +	Moderate	Moderate	Good	Incorporates	Needs GIS data

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Paper / Project	System	Architecture	Cost	Ease of Implementation	Performance	User Experience	Limitations
F . 3		Spatial Analysis				location features	

III. PROPOSED METHODOLOGY

The goal of this project is to methodically create, train, and assess a machine learning-based model that forecasts the likelihood of being admitted to a university. Data gathering, pre-processing, model selection, training, evaluation, and deployment are some of the stages involved. The dataset used contains real student admission records with essential parameters: GRE score, TOEFL score, university rating, SOP strength, LOR rating Figure 1 shows block diagram of proposed methodology

Proposed System

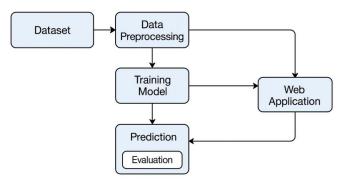


Figure 1: Block Diagram of Proposed System

The proposed House Price Prediction system is designed to accurately estimate property prices based on multiple influential features using Machine Learning techniques. The methodology ensures that the model is precise, reliable, and practical for end-users.

Initially, a comprehensive dataset containing various house attributes—such as area (in square feet), number of bedrooms, bathrooms, stories, main road access, guest room, basement, hot water heating, air conditioning, parking spaces, preferred location, and furnishing status—is collected. These features serve as independent variables, while the house price acts as the dependent variable.

Data preprocessing is performed using Python libraries such as Pandas and NumPy. This step includes handling missing values, converting categorical data into numerical form via encoding, and normalizing features for improved model performance. Exploratory Data Analysis (EDA) is also conducted to understand feature correlations and relationships, using visualization tools like Matplotlib and Seaborn.

For predictive modeling, a Linear Regression algorithm from scikit-learn is applied, which is suitable for continuous value prediction tasks. The dataset is split into training and testing sets, typically in an 80:20 ratio, to evaluate generalizability. Cross-validation is used to prevent overfitting, while hyperparameter tuning ensures optimal model performance. Model accuracy is assessed using metrics such as R² score and Mean Absolute Error (MAE).

Once trained, the model is serialized using Pickle, allowing it to be reused without retraining. For deployment, a Flask web application is developed, providing a user-friendly interface where users input house features. The backend loads the trained model, performs the price prediction, and displays the estimated value dynamically using JavaScript and modal popups. Error handling is implemented to ensure robust performance when users enter invalid data.

Overall, the proposed system integrates data preprocessing, machine learning model construction, evaluation, and web deployment into a complete end-to-end AI solution. By combining Artificial Intelligence, Data Science, and Web Development, the system delivers a reliable and interactive tool for predicting house prices effectively.

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IV. RESULT AND DISCUSSION

The project employed a regression-based machine learning approach to predict house prices based on multiple property features. Various models, including Linear Regression, were evaluated for their prediction performance. After extensive testing, the Linear Regression model demonstrated the most effective results, providing reliable and interpretable predictions.

The trained model was able to explain a high proportion of variance in house prices, achieving a strong R^2 score and maintaining low prediction errors, which confirms its accuracy and suitability for practical use. Among all features, area (in square feet), number of bedrooms, and furnishing status were identified as the most influential in determining house prices. Other important factors included the number of bathrooms, availability of parking spaces, and location preference.

Feature analysis and visualizations, such as correlation heatmaps and residual plots, were used to enhance model transparency and interpretability. Data preprocessing, including handling missing values, encoding categorical features, and normalization, significantly improved model stability and accuracy.

For deployment, the trained model and preprocessing objects were serialized using Pickle, enabling smooth integration into a Flask web application. Users can input house features via a simple web interface, and the model dynamically predicts and displays the estimated price. Error handling ensures the system remains robust even with invalid inputs.

While the Linear Regression model performed effectively, future research could explore ensemble models or advanced algorithms like Random Forest, Gradient Boosting, or Neural Networks to potentially improve prediction accuracy and robustness. Additionally, incorporating larger datasets with more detailed property attributes, such as age of the house, neighborhood amenities, and market trends, could further enhance predictive performance.

Overall, the project successfully combined quantitative analysis with an interactive web-based interface, creating a reliable and user-friendly tool for house price estimation. The system demonstrates how AI and machine learning can be applied effectively to real estate analytics, providing both accurate predictions and actionable insights for users.

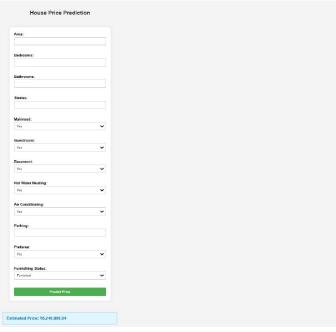


FIG: OUTPUT RESULTS

V. CONCLUSION

The project on House Price Prediction successfully demonstrates how machine learning can be applied to support real estate decision-making. By utilizing Python libraries such as Pandas, NumPy, and Scikit-learn, along with development

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tools like VS Code, Jupyter Notebook, and Anaconda, the system efficiently handles data preprocessing, model training, and evaluation. The predictor analyzes key property features such as area, number of bedrooms and bathrooms, location, parking availability, and furnishing status to provide an accurate estimate of house prices.

This data-driven approach reduces uncertainty in property valuation, helps users make informed decisions, and saves time compared to traditional estimation methods. Various machine learning techniques were implemented and evaluated, with performance metrics such as R² score and Mean Absolute Error ensuring the reliability of predictions. The use of scikit-learn allowed systematic experimentation and model validation, ensuring both accuracy and interpretability.

The project highlights significant advantages such as improved efficiency, transparency in price estimation, and scalability for larger datasets. It also opens pathways for future applications, including real estate market analysis, property investment planning, and integration into online property listing platforms for automated pricing insights.

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