

EXPLORING MACHINE LEARNING MODELS FOR PREDICTING PROPERTY MARKET TRENDS

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The intention of this project is to predict Bangalore real estate prices using historical data and machine learning. An end-to-end approach is used by the project, which involves deployment, training the model, and preprocessing of data. Users can enter details about properties and receive real-time price predictions by using a web application based on Flask to generate the solution. There are several parameters, such as the type of area, location, overall square footage, bathrooms, and balconies, that are part of the dataset. The features are used to train a machine learning model. The trained model can make predictions based on the input features provided by the user through the web interface. To generate user inputs and make predictions, the application feeds user requests into a number of endpoints such as /predict. Building and training the model involves feature selection, data cleaning, and model evaluation. The simplicity of the whole system is complemented by its support for recommending locations and areas to the user based on predetermined columns of data. Overall, this work is an effective blend of web technology and machine learning to provide a reliable and interactive tool for the prediction of Bangalore real estate prices, addressing a very urgent demand for accurate real estate valuations. The system is implemented as a Streamlit web application, which provides users with an intuitive user interface to query the model. Users are able to input details of the property, such as its size, location, and type of area, and obtain a rough estimate of the price. The online application also has features that enhance user experience by auto-suggesting locations and types of areas.