

**UNITED INSTITUTE OF MANAGEMENT**

**(FACULTY OF UNDERGRADUATE STUDIES)**

**Affiliated to**

**Prof. Rajendra Singh (Rajju Bhaiya) University, Prayagraj, UP**

**A Synopsis Report on**

# House Price Prediction



Submitted for partial fulfilment for award of the degree in

Bachelor of Computer Application (BCA)

**Under the Supervision**

**of**

## Mr. Jitendra Kumar

**Submitted By** :

**Name : Surya Prakash Patel, Swapnil Kesharwani**

**University Roll No. : 2412105201337**

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## INTRODUCTION

Welcome to **House Price Prediction System**, a data-driven solution designed to estimate real estate prices with accuracy and efficiency. In today’s world, buying or selling a house involves several factors like location, size, amenities, and market trends. Our project leverages **Machine Learning** techniques to simplify this process by providing reliable price predictions based on historical data and modern algorithms.

The system is not only useful for **buyers and sellers** but also for **real estate agents, investors, and property consultants**, enabling them to make informed decisions. By analyzing datasets that include parameters such as area, location, number of bedrooms, bathrooms, age of property, and other features, our model predicts the approximate market value of a house.

On our platform, you’ll find:

* **Smart Price Predictions**: Accurate house price estimations powered by machine learning algorithms like Linear Regression, Decision Trees, and Random Forests.
* **User-Friendly Interface**: A clean and simple design where users can input property details and instantly get predictions.
* **Data Insights**: Visualization of housing trends, location-wise price distributions, and feature importance to understand what drives house prices.
* **Real-World Application**: Assists buyers in budgeting, helps sellers set competitive prices, and supports investors in spotting profitable opportunities.

At **House Price Prediction**, we aim to bridge the gap between **raw housing data** and **actionable insights**, making the real estate process smarter, faster, and more transparent.

**FUTURE SCOPE**

The future of a House Price Prediction system is vast, as it can evolve with technology, user demands, and the real estate market. Here’s what lies ahead:

❖ **Integration with Real-Time Market Data** – Automatic updates from real estate listings to ensure highly accurate predictions.

❖ **AI-Powered Chatbots & Virtual Assistants** – Guiding users through buying, selling, or renting decisions in real-time.

❖ **Personalized Recommendations** – Suggesting houses based on user budget, preferences, and lifestyle needs.  
❖ **Augmented Reality (AR) & Virtual Tours** – Allowing users to explore properties virtually before making decisions.

❖ **Blockchain for Secure Transactions** – Ensuring transparency and security in property deals and contracts.

❖ **Mobile App Expansion** – Bringing the system to smartphones for easy access anytime, anywhere.

❖ **Integration with Smart Cities** – Linking with IoT and smart infrastructure data for futuristic housing predictions.

❖ **Sustainability Insights** – Predicting not only prices but also energy efficiency and eco-friendly housing value.

With continuous improvements, the **House Price Prediction system** has the potential to transform the real estate industry by combining **data, AI, and user-centric design** into one powerful solution.

## TECHNOLOGY USED

**FRONT END: -**

Utilize HTML, CSS, AJAX, JQUERY and JavaScript for building an interactive and responsive use interface.

**BACK END: -**

Used PHP to create a robust backend server that handles user requests and interactions.

**DATABASE: -**

To store user data and content in a MySQL database for scalability and flexibility.

**WEB BROWSER: -**

Google chrome is used as a platform to display the result of source code.

**SOFTWARE: -**

To connect database to the website XAMPP software is used.

### HARDWARE: -

**Processor:** Intel core i5 or higher

**RAM:** 4GB minimum (recommended 8GB)

**Storage:** At least 20GB free disk space recommended

**Operating System:** Windows11, macOS

## LAYOUT OF PROPOSED WORK

**Home:** The home page serves as the main dashboard where users interact with the website. At the top, there is a navigation bar with options like Home, About Us, Tour Package, Privacy Policy, Term of Use, Contact Us, Enquiry, Admin Login, User Login, Guest User Login.

**About Us:** The About section, is dedicated to providing information and insights about the website. You can also use your "About" page to funnel visitors to other web pages, such as a blog post or social profiles.

**Tour Package:** You can book a tour package to any of the destinations depending on your budget and other factors such as how long you would like to stay, your preference of activities such as historical tour, other city tour, resorts and many more.

**Privacy Policy:** We ensure that our privacy policy is a legal document that outlines how our organization collects, uses, and protects personal information obtained from individuals.

**Terms and Conditions:** Terms and Conditions, is a legal agreement between a service provider and the user. It outlines the rules and guidelines that users must agree to follow in order to use the service.

**Contact Us:** A “Contact Us” page is a section on a website where visitors can find information on how to get in touch with the organization.

**Enquiry:** The enquiry section is designed to assist users with any issues, inquiries, or difficulties they might encounter while using the website. Users can seek guidance and support, report problems, and find solutions to common challenges.

### Admin Modules

* Admin can create Package
* Manage packages (Create, Update)
* Manage Users
* Manage Inquiries
* Manage issues
* Manage Booking
* Manage Pages
* Change Password
* Admin Dashboard

### User Modules

* User can register yourself.
* User can log in with valid email and password.
* Forgot Password (user Can recover own password)
* Tour Booking
* Manage Booking
* Generate Ticket (Regarding Complaint)
* Change Password

### Guest Modules

* Visit the Website
* Guest user can enquiry

## ROLE OF TEAM MEMBER

|  |  |
| --- | --- |
| **Member Name** | **Role of Team Member** |
| Sameer Sharma | Back-end |
| Sakshi Maurya | Front-end |
| Gulshan Kumar | Documentation |

## CONCLUSION

In conclusion, **“KUMBH TOURISM”** is dedicated to making the Kumbh Mela accessible, meaningful, and memorable for all who seek to experience this profound spiritual event. As the world’s largest gathering of humanity, the Kumbh Mela offers a unique blend of spirituality, culture, and tradition, and our website is your trusted companion in navigating this extraordinary pilgrimage.

Whether you are a first-time visitor, a seasoned pilgrim, or someone simply curious about the richness of Indian culture, **“KUMBH TOURISM”** provides all the resources, insights, and tools you need to make the most of your Kumbh Mela experience. From comprehensive guides and personalized travel plans to community-driven content and real-time updates, we ensure that your journey is as seamless and enriching as possible.

As we look to the future, our commitment remains steadfast: to enhance your Kumbh Mela experience through innovative technology, sustainable practices, and deep cultural engagement. We invite you to join us in celebrating the timeless tradition of the Kumbh Mela, whether in person or through the vibrant digital experiences we offer.

Thank you for choosing **“KUMBH TOURISM”** as your gateway to the Kumbh Mela. Together, let’s embark on a journey of spiritual discovery and cultural exploration that will leave a lasting impression on your heart and soul.