

# Smart Stay

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An AI-based Hotel, Food, and Travel Recommendation System

Team Name: Smart Stay

Team Members:

1. KUMAR V S
2. THARUN B
3. VISHAL V R
4. SATHISH S

Institution: BANNARI AMMAN INSTITUTE OF TECHNOLOGY, SATHAYAMANGLAM

Contact Email: kumar.ct22@bitsathy.ac.in

## Problem Statement

Travelers often face difficulty in choosing the right hotel, food, or place to visit. Most existing platforms show too many options without personalization. There is a need for a smart assistant that understands user preferences and simplifies decision-making.

## Our Solution – Smart Stay

Smart Stay is an AI-powered travel assistant that recommends hotels, food options, and tourist places. It learns from user feedback and preferences to improve suggestions over time.

## Key Features

- AI-based hotel and food recommendations
- Personalized results using user history and feedback
- Sentiment analysis for feedback
- Simple and clean user interface

## Tech Stack

- Front End: React.js
- Back End: Node.js / Flask

- AI/ML: Python (scikit-learn, pandas, NLTK)
- Database: MySQL / MongoDB
- Deployment: Vercel / Heroku / AWS

## System Architecture

The system consists of three main components:

- Front End (UI): Collects user input and displays suggestions
- AI Model: Analyzes data and gives recommendations
- Database: Stores hotels, food data, and user feedback

## Project Screenshots & Team Photos

The screenshot displays two main sections of the application:

**Room Stats**

Total Rooms	Available Rooms	Not Available	Total Reservation
9	9	0	9

**Rooms Details**

Add New Room | Add New Location

Cuisine Type	Description	Order Button
Pakistani_Cuisine	Want to experience a combination of aromas and spices? This is what Pakistani cuisine is all about!	Order Pakistani_Cuisine
Mexican_Cuisine	Savour your taste buds with a perfect blend of traditional Mexican food.	Order Mexican_Cuisine
Italian_Cuisine	Familiar with the taste of Italian dishes? People around the globe call it their favorite cuisine.	Order Italian_Cuisine
French_Cuisine	Looking for simple ingredients transformed by artful techniques? We get you!	Order French_Cuisine

## **Current Progress**

- Front end is developed and UI is functional
- Sample AI model trained on hotel data
- Feedback form integrated with basic sentiment analysis
- Project working as a demo version

## **Future Scope**

- Add voice-based input and chatbot feature
- Integrate location-based search and GPS
- Link with hotel booking and food APIs
- Build mobile app version

## **Thank You!**

We're excited to make travel smarter with AI!

Contact: [kumar.ct22@bitsathy.ac.in](mailto:kumar.ct22@bitsathy.ac.in)