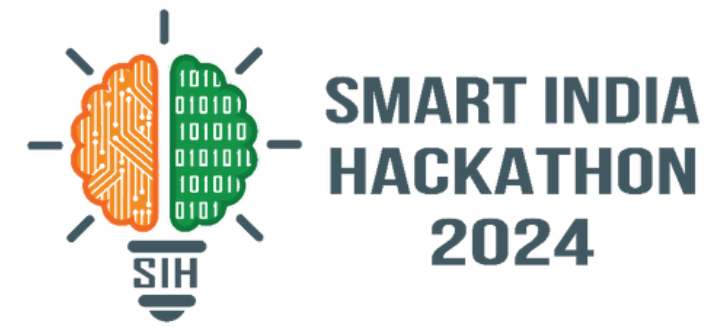
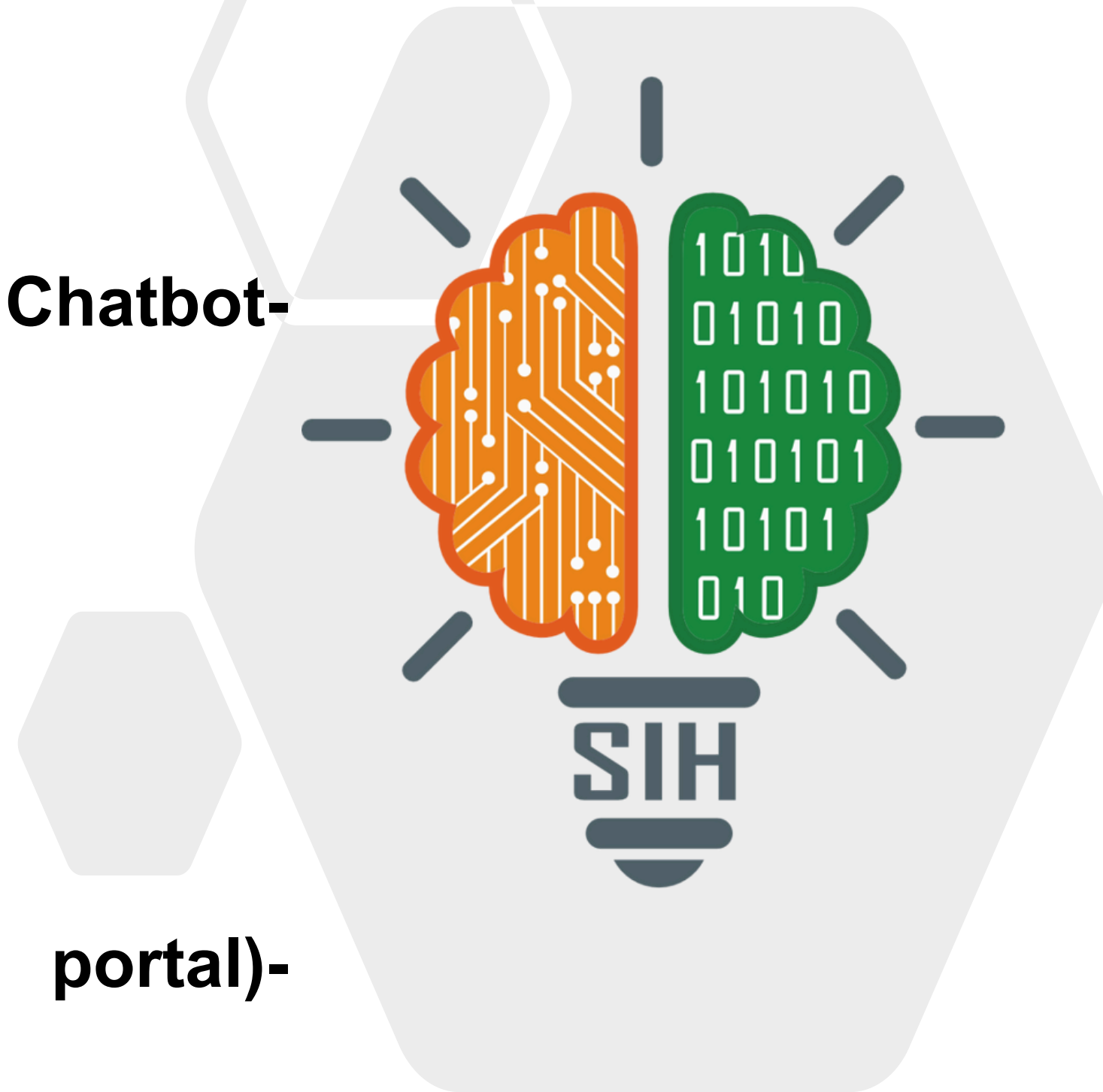


# SMART INDIA HACKATHON 2024



- Problem Statement ID –1648
- Problem Statement Title - Online Chatbot-based Ticketing System
- Theme-Travel & Tourism
- PS Category- Software
- Team Name (Registered on portal)-  
circuitlchix



# Chatbot-based Ticketing System

- Proposed Solution

- Implementation of a chatbot-based ticket booking system.
- Integrates payment gateway and provides analytics for decision-making.

## Technologies to be used:

- Programming Languages: Python, JavaScript
- Frameworks: Flask, React, Dialogflow (for chatbot), Tensorflow, Pytorch
- Others: Payment Gateway Integration (like Stripe/PayPal)

## Methodology and Process:

- Develop the chatbot using Dialogflow.
- Integrate with Flask backend for booking management.
- Use React for frontend interaction.
- Implement payment gateway for secure transactions.

# FEASIBILITY AND VIABILITY

## Feasibility:

- Leveraging existing technologies ensures implementation within a reasonable timeframe.
- Minimal hardware requirements make it scalable.

## Challenges:

- Ensuring chatbot accuracy in various languages.
- Integrating seamless payment processing.

## Overcoming Strategies:

- Rigorous testing across languages.
- Partnering with reliable payment gateway providers.

# IMPACT AND BENEFITS

## Potential Impact:

- Enhances visitor satisfaction by reducing wait times.
- Increases museum revenue through streamlined operations.

## Benefits:

- Social: Improves accessibility for non-English speakers.
- Economic: Reduces costs associated with manual booking errors.
- Environmental: Minimizes paper usage through digital ticketing.

- E. Handoyo, M. Arfan, Y. A. A. Soetrisno, M. Somantri, A. Sofwan and E. W. Sinuraya, "Ticketing Chatbot Service using Serverless NLP Technology," 2018 5th International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE), Semarang, Indonesia, 2018, pp. 325-330, doi: 10.1109/ICITACEE.2018.8576921. keywords: {Facebook;Electrical engineering;Urban areas;Natural language processing;Programming;Task analysis;Testing;chatbot;routing agent;conversation;NLP;interaction;intent},