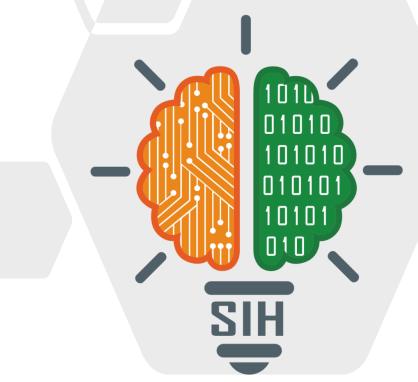
SMART INDIA HACKATHON 2025

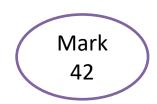


- **Problem Statement ID** SIH25061
- Problem Statement Title- Digitize and Showcase Monasteries of Sikkim for Tourism

and Cultural Preservation

- Theme- Travel & Tourism
- PS Category- Software
- **Team ID-** 86211
- Team Name Mark 42



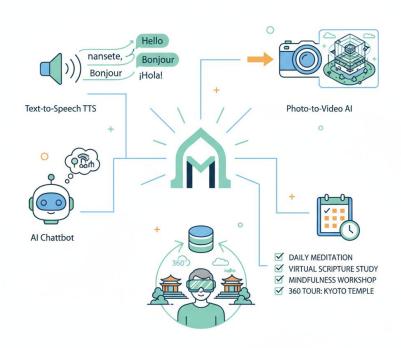


IDEA TITLE



Proposed Solution (Describe your Idea/Solution/Prototype)

Detailed Explanation of the Proposed Solution



How It Addresses the Problem

- •Remote Accessibility via digital immersion
- •Cultural Heritage Archival Repository
- •Enhanced Tourist Engagement & Interaction
- •Local Community & Guide Integration
- •Scalable Multilingual Global Access

Innovation and Uniqueness of the Solution

- AI-driven Multilingual Narration Engine
- Photo-based Generative Video Synthesis
- Context-aware Chatbot Travel Assistant
- Immersive Geo-tagged VR Exploration
- Tech-Culture Fusion for Preservation



TECHNICAL APPROACH





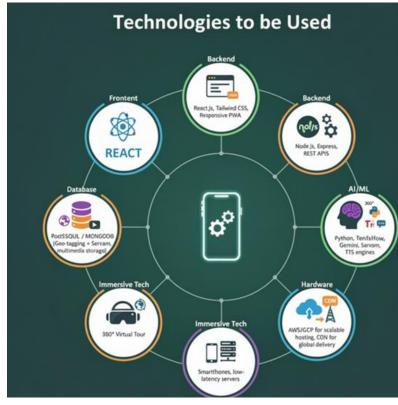
AI-Powered Narration

Multilingual storytelling engine with natural language processing, delivering personalized monastery histories and cultural insights in real-time.

Generative Video Synthesis

Advanced photo-to-video technology creating immersive monastery walkthroughs from historical photographs and 360-degree captures.





VR Experience Platform

Geo-tagged virtual reality environments enabling authentic monastery exploration with spatial audio and interactive elements.

Intelligent Travel Assistant

Context-aware Al chatbot providing instant answers about monastery customs, visiting guidelines, and cultural significance.



FEASIBILITY AND VIABILITY





Technical Feasibility

Scalable cloud infrastructure, proven Al technologies, VR-ready development frameworks, and robust multilingual processing capabilities ensure technical viability.

Challenge Assessment

Limited connectivity in remote areas, technology adoption barriers among communities, data privacy concerns, computational costs, and cultural sensitivity requirements.

Strategic Solutions

Offline-capable modules, progressive web applications, adaptive compression algorithms, phased deployment strategy, and comprehensive stakeholder engagement programs.

Implementation Strategy: Our phased rollout approach begins with pilot monasteries, incorporates community feedback, and scales systematically across Sikkim's spiritual landscape while maintaining cultural authenticity.

IMPACT AND BENEFITS



Positive Transformation



Global Tourism Enhancement

Immersive digital experiences attracting international visitors and extending engagement beyond physical visits.



Financial Sustainability

Thus, securing diverse funding, managing costs efficiently, and establishing viable revenue models for long-term viability.



Community Empowerment

Economic opportunities for local guides, artisans, and service providers through digital platform integration.



Cultural Awareness

Deep appreciation for Buddhist heritage through authentic storytelling and interactive educational content.

Implementation Considerations



Connectivity Challenges

Developing offline-first solutions for remote locations



Cultural Sensitivity

Ensuring respectful representation of sacred spaces



Sustainability

Long-term maintenance and community ownership models



RESEARCH AND REFERENCES



British Archive of Sikkim: https://eap.bl.uk/collection/EAP880-1/search (1875-1975)

Monastery Data: http://www.sikkimeccl.gov.in/History/Monasteries/East/EasMonasterytList.aspx



Official Government Data

Government of Sikkim – Monastery Database: Comprehensive registry of monasteries, historical records, architectural details, and cultural significance



Historical Archives

British Library – Sikkim Manuscripts: Ancient texts, historical photographs, cultural artifacts, and scholarly research providing authentic cultural context.



Academic Partnerships

Cultural Research Institutions: Collaboration with universities and heritage organizations for validation, content accuracy, and ongoing research support.

Technology Validation

documentation.

Our solution leverages proven technologies including Azure Cognitive Services, and Google Cloud Al for scalable, reliable implementation.

Cultural Authentication

Working directly with monastery leaders, local historians, and cultural preservation experts ensures authentic representation and community acceptance.

Next Steps: Ready for immediate prototype development with established partnerships and comprehensive research foundation supporting our innovative approach to digital heritage preservation.

For Full Demo Visit Our Youtube Video: https://youtu.be/eZ7TcFmYWn4