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### RESEARCH ARTICLE

## SMART TOURISM PRACTICES IN SIKKIM: INTEGRATING TECHNOLOGY FOR SUSTAINABLE TOURISM DEVELOPMENT

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### Abstract

Sikkim is at the forefront of adopting smart tourism practices to enhance visitor experiences, improve transportation efficiency, and promote sustainable development. This research explores the integration of technology across various sectors, including smart destinations, transportation, accommodations, local community engagement, and facilities. Utilizing secondary data, personal observations, and interactions with stakeholders, this study provides a comprehensive overview of the smart tourism initiatives implemented in Sikkim. By assessing factors such as smart destinations, smart accessibility, smart accommodations, smart amenities, tourist experience, smart governance, and local community technologies, the research evaluates how ICT tools enhance the overall travel experience and contribute to sustainable tourism development. The findings demonstrate that smart tourism practices significantly enhance visitor satisfaction, optimize resource use, and minimize environmental impact. This study highlights the transformative potential of smart tourism in creating a more efficient and sustainable tourism environment in Sikkim.

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### Introduction:-

Smart tourism leverages various Information and Communication Technology (ICT) tools to elevate the travel experience, improve destination management, and promote sustainable practices. These tools help in providing real-time information, personalized services, and efficient resource management. By integrating advanced digital technologies such as mobile applications, Internet of Things (IoT), Big Data Analytics, Artificial Intelligence (AI), Augmented Reality (AR), Virtual Reality (VR), Near Field Communication (NFC), and cloud computing, smart tourism creates a connected and immersive environment for travelers.

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This study focuses on the adoption of smart tourism practices in Sikkim, a northeastern Indian state renowned for its rich biodiversity, cultural heritage, and stunning landscapes. Sikkim's commitment to preserving its natural and cultural assets while promoting sustainable development makes it an ideal candidate for implementing smart tourism initiatives. By embracing smart tourism, Sikkim aims to enhance visitor experiences, improve transportation efficiency, promote sustainable practices, and engage local communities in tourism development.

By analyzing secondary data, personal observations, and interactions with stakeholders, this research provides insights into the various smart tourism initiatives undertaken in Sikkim and their impact on the state's tourism sector. The findings highlight the transformative potential of smart tourism in creating a more sustainable, efficient, and visitor-friendly environment in Sikkim.

### **Study Area**

Sikkim, located in northeastern India, is a small but picturesque state known for its dramatic landscapes, diverse flora and fauna, and rich cultural heritage. Nestled in the Eastern Himalayas, Sikkim is bordered by Tibet to the north and northeast, Bhutan to the east, Nepal to the west, and the Indian state of West Bengal to the south. Its mountainous terrain, including the majestic Kanchenjunga, the third highest peak in the world, and its numerous rivers and lakes, make Sikkim a haven for nature lovers and adventure enthusiasts.

Historically, Sikkim has been a melting pot of different cultures and ethnicities, including Lepchas, Bhutias, and Nepalese, each contributing to the state's rich cultural tapestry. The state is home to numerous monasteries, temples, and cultural festivals, reflecting its deep-rooted traditions and spiritual significance.

In recent years, Sikkim has made significant strides in technological advancements, particularly in the tourism sector. The state government has been proactive in adopting smart tourism practices, leveraging technology to enhance the visitor experience, improve infrastructure, and promote sustainable tourism development. Initiatives such as AI-driven traffic management systems, mobile applications for tourists, intelligent transport systems, and smart accommodations are transforming Sikkim into a smart tourism destination.

The adoption of these innovative approaches aims to address the geographical challenges and ensure the preservation of Sikkim's natural and cultural assets. By integrating technology into various aspects of tourism, Sikkim is positioning itself as a model for sustainable and smart tourism development, ensuring that the benefits of tourism are balanced with the need to protect its unique environment and heritage.

### **Research Objectives:-**

1. To assess the role of ICT tools in enhancing the tourism experience in Sikkim.  
Research Question: How do ICT tools improve the overall travel experience for tourists in Sikkim?
2. To evaluate the impact of smart tourism practices on sustainable tourism development in Sikkim.  
Research Question: In what ways do smart tourism practices contribute to the sustainability of tourism in Sikkim?

### **Literature Review:-**

Smart tourism integrates ICT tools to create an interconnected and intelligent tourism ecosystem. Previous studies have highlighted the benefits of ICT in improving the tourist experience, enhancing destination management, and promoting sustainability. This review focuses on the role of various ICT tools and smart tourism practices, with a particular emphasis on their application in Sikkim and India at large.

### **ICT Tools and Tourism Experience**

ICT tools significantly enhance the overall travel experience for tourists. Mobile applications provide real-time information, navigation assistance, booking facilities, and local insights, making travel more convenient and satisfying (Gretzel, Sigala, Xiang, & Koo, 2015). The adoption of IoT devices in tourism enables smart accommodations, real-time updates, and environmental monitoring, which further enhance the tourist experience (Zhang & Chen, 2016). These technologies facilitate a seamless and personalized travel experience, making destinations more accessible and enjoyable.

**Smart Tourism and Sustainable Development**

Smart tourism practices contribute to sustainable tourism development by optimizing resource use and minimizing environmental impact. Big Data Analytics plays a crucial role in understanding visitor behavior, optimizing resource allocation, and enhancing marketing strategies (Smith, 2018). AI technologies, including chatbots and predictive analytics, provide personalized services while reducing resource wastage (Neuhofner, Buhalis, & Ladkin, 2015). The integration of these technologies helps promote sustainability by ensuring efficient use of resources.

**Challenges and Opportunities in Implementing Smart Tourism**

The implementation of smart tourism technologies presents both challenges and opportunities. Opportunities include enhancing tourist satisfaction, improving operational efficiency, and promoting sustainable practices (Choe, Kim, & Fesenmaier, 2017). However, challenges such as the need for robust technological infrastructure, data privacy concerns, and the requirement for stakeholder training and engagement must be addressed (Gretzel et al., 2015).

**National Digital Tourism Mission**

At the national level, the National Digital Tourism Mission Report by the Ministry of Tourism, Government of India, outlines the strategic objectives and key guiding principles for promoting digital tourism across the country. This initiative aims to enhance the use of digital tools and platforms in the tourism sector, improving transparency, efficiency, and tourist satisfaction (Ministry of Tourism, Government of India, 2021).

**Smart Tourism Practices in Sikkim**

Sikkim's government is actively embracing smart tourism practices to enhance visitor experience, improve transportation efficiency, and promote sustainable development. Key initiatives include AI-driven traffic management systems, mobile applications for tourists, intelligent transport systems, online booking platforms, and digital information kiosks (Sikkim Inspires, 2021). These efforts aim to transform Sikkim into a smart tourism destination, leveraging technology to create a more connected, informative, and sustainable travel environment.

**Prospect of Promoting Sikkim as a Smart Tourism Destination**

A study on promoting Sikkim as a smart tourism destination discusses the potential of integrating smart city concepts with tourism. The research highlights the importance of leveraging ICT tools to enhance tourist experiences and promote sustainable tourism practices in Sikkim (Dam, 2022).

**Developing a Model for Smart Tourism Destinations**

Another study presents a framework for developing smart tourism destinations, identifying key factors such as financial resources, government support, and smart tourism policies. This model is essential for understanding the critical components needed to create successful smart tourism destinations (Shafiee, Ghatari, Hasanzadeh, & Jahanyan, 2022).

**Research Methodology:-**

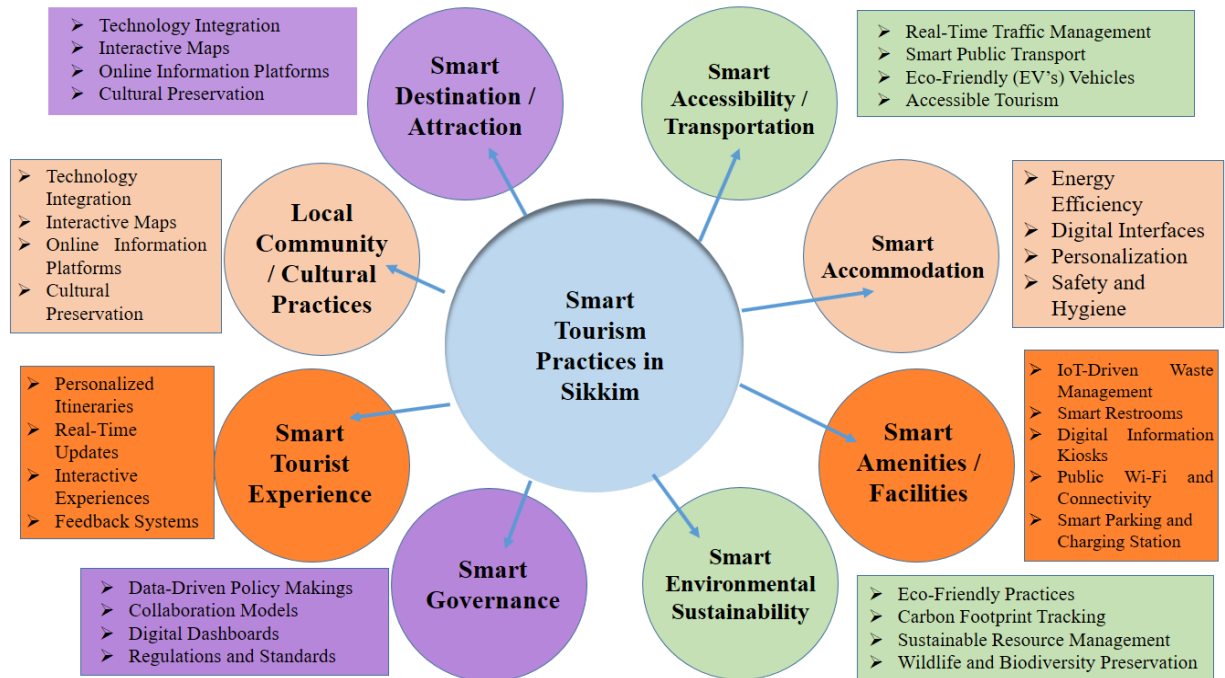
This descriptive and exploratory research study utilizes secondary data from various sources, including tourism management reports, environmental studies, technology usage surveys, and social media analytics. Additionally, personal observations and interactions with stakeholders provide deeper insights into the practical application and impacts of smart tourism practices in Sikkim.

**Research Design**

The research design involves collecting data from secondary sources such as government reports, academic journals, and industry publications. Observations and interactions with stakeholders including tourists, local residents, and tourism authorities provide qualitative insights into the effectiveness of smart tourism initiatives.

**Conceptual Framework for Smart Tourism Practices in Sikkim**

Sikkim, with its stunning landscapes and rich cultural heritage, is leveraging smart tourism to enhance visitor experiences while ensuring sustainability. This framework outlines the key components of smart tourism in Sikkim, focusing on smart infrastructure, governance, mobility, economy, environment, experience, and community engagement. By integrating advanced technologies and fostering collaboration, Sikkim aims to achieve balanced growth and preservation of its natural and cultural treasures.



**Fig. 01:-** Smart Tourism Practices in Sikkim.

### 1. Smart Destination / Attractions

**Technology Integration:** Use of Augmented Reality (AR) and Virtual Reality (VR) for virtual tours and digital storytelling to enhance visitor experiences.

**Interactive Maps:** Deployment of GIS-enabled smart mapping for easy navigation of tourist attractions.

**Online Information Platforms:** Real-time updates on attractions, including hours, events, and weather conditions.

**Cultural Preservation:** Digitization of local art, crafts, folklore, and traditions for global promotion and education.

### 2. Smart Transportation / Accessibility

**Real-Time Traffic Management:** IoT-enabled systems for efficient traffic flow and reduced congestion.

**Smart Public Transport:** Mobile apps offering live tracking of buses and shared rides, coupled with digital ticketing.

**Eco-Friendly Vehicles:** Promotion of electric vehicles (EVs) and infrastructure development for EV charging stations.

**Accessible Tourism:** Facilities and technologies ensuring inclusivity for differently-abled travelers.

### 3. Smart Accommodation

**Energy Efficiency:** Smart sensors for automated lighting, heating, and cooling to minimize energy usage.

**Digital Interfaces:** Contactless check-ins and smart room controls via mobile apps or AI-based concierge services.

**Personalization:** AI-powered tools for tailored recommendations and guest preferences.

**Safety and Hygiene:** Technology-driven cleaning protocols and surveillance for enhanced safety.

### 4. Smart Facilities / Amenities

**IoT-Driven Waste Management:** Smart waste bins with sensors to monitor fill levels and ensure timely collection, promoting cleanliness and sustainability.

**Smart Restrooms:** Automated and self-cleaning public toilets with touch-free utilities, ensuring hygiene and water conservation.

**Digital Information Kiosks:** Interactive kiosks offering real-time navigation, local information, and multilingual support for tourists.

**Public Wi-Fi and Connectivity:** High-speed internet zones in tourist areas for seamless connectivity and enhanced digital experiences.

**Smart Parking and Charging Stations:** Sensor-enabled parking systems and electric vehicle (EV) charging points to support eco-friendly tourism.

#### 5. Smart Governance

**Data-Driven Policy Making:** Real-time data analytics for monitoring tourism flows and making informed decisions.

**Collaboration Models:** Strengthened public-private partnerships for funding and resource sharing.

**Digital Dashboards:** Transparent and efficient monitoring of tourism operations.

**Regulations and Standards:** Policies to ensure ethical and sustainable tourism practices.

#### 6. Smart Tourist Experience

**Personalized Itineraries:** AI-based platforms offering tailored travel recommendations based on preferences and past behavior.

**Real-Time Updates:** Notifications on weather, events, or emergencies to keep tourists informed.

**Interactive Experiences:** Gamification and mobile-based augmented activities to engage tourists actively.

**Feedback Systems:** Digital channels for gathering tourist feedback and implementing improvements.

#### 7. Smart Environmental Sustainability

**Eco-Friendly Practices:** Technologies for promoting renewable energy usage and water conservation in tourist destinations.

**Carbon Footprint Tracking:** Tools for tourists and operators to monitor and reduce carbon emissions.

**Sustainable Resource Management:** IoT and AI for efficient use of natural resources and waste recycling.

**Wildlife and Biodiversity Preservation:** Technology to monitor and protect ecosystems near tourist areas.

#### 8. Local Community's Benefits Using Technologies

**Economic Empowerment:** E-commerce platforms for promoting local crafts, products, and services.

**Skill Development:** Training locals in technology-driven tourism management and smart systems.

**Cultural Exchange:** Enhancing community interaction with tourists through tech-enabled events and programs.

**Revenue Generation:** Increased earnings from smart tourism practices, benefiting local businesses and stakeholders.

### Findings and Discussion:-

#### Smart Destinations

Sikkim's transformation into a smart destination is marked by several key initiatives aimed at enhancing the visitor experience and promoting sustainable tourism practices. The following subsections discuss these initiatives in detail:

#### AI-Driven Traffic Management System:

The AI-Driven Traffic Management System, launched on May 25, 2024, uses advanced AI algorithms to optimize traffic flow and enhance road safety. By dynamically adjusting traffic signals based on real-time data, the system helps reduce congestion and improve travel times. Additionally, it monitors and enforces traffic regulations, detecting violations and verifying documents like insurance and permits. Researchers observed that this system has significantly improved road safety and streamlined traffic management, making travel within Sikkim more efficient and enjoyable (Dam, 2022).

#### Mobile Applications for Tourists:

The introduction of the 'Sikkim Cab' mobile application has revolutionized the way tourists navigate the state. This app allows tourists to book taxis at government-approved rates, combating overcharging and enhancing convenience. It also facilitates bookings for rentals and sightseeing packages. Stakeholders, including local taxi drivers and tourists, have reported positive feedback, appreciating the transparency and ease of use provided by the app. Such mobile applications are critical in ensuring a smooth and hassle-free travel experience in Sikkim (Sikkim Inspires, 2021).

#### Intelligent Transport Systems (ITS):

Intelligent Transport Systems (ITS) provide real-time information on public transport services, enhancing the travel experience for both locals and tourists. These systems make public transportation more reliable and efficient by reducing wait times and providing real-time updates on bus and train schedules. Researchers noted that the

implementation of ITS in Sikkim has led to improved satisfaction among users, who benefit from the timely and accurate information about their travel options (Ministry of Tourism, Government of India, 2021).

**Online Booking Platforms:**

Collaborations with major travel booking companies have enabled tourists to book bus services and holiday packages online. This initiative has made travel planning more accessible and convenient. Stakeholders, including travel agencies and tourists, have highlighted the benefits of this digital transformation in promoting tourism. Online booking platforms provide tourists with the flexibility to plan their trips in advance, ensuring a seamless travel experience (Gretzel et al., 2015).

**Digital Information Kiosks:**

Digital information kiosks at key tourist spots provide valuable information about attractions, events, and local culture. These kiosks offer interactive displays and multilingual support, making it easier for tourists to access essential information. Tourists have responded positively to these kiosks, which enhance their understanding and enjoyment of the destinations. Researchers observed that digital kiosks contribute to a more informed and engaged visitor experience, promoting cultural awareness and appreciation (Choe et al., 2017).

**Smart Transportation**

The integration of smart transportation systems in Sikkim includes several innovative initiatives aimed at improving the efficiency and safety of transport systems.

**Real-Time Traffic Monitoring:**

The AI-driven traffic management system in Sikkim not only optimizes traffic flow but also monitors traffic violations, ensuring compliance with regulations. This system provides real-time data on traffic conditions, allowing authorities to manage congestion effectively. Researchers noted that this initiative has significantly improved traffic management in urban areas, reducing travel times and enhancing road safety (Dam, 2022).

**Public Transport Innovations:**

Public transport innovations such as online booking systems for bus services have made it easier for tourists to plan their journeys. The Sikkim Nationalised Transport (SNT) has introduced online booking platforms that allow tourists to book bus tickets in advance, ensuring a smooth and hassle-free travel experience. Stakeholders, including bus operators and tourists, have reported increased satisfaction with the convenience and efficiency of these systems (Ministry of Tourism, Government of India, 2021).

**Hydrogen-Powered Buses:**

As part of the Green Hydrogen Smart City initiative, Sikkim plans to introduce hydrogen-powered buses for public transportation. This initiative aims to promote eco-friendly travel options and reduce carbon emissions. Researchers observed that this initiative aligns with Sikkim's commitment to sustainability and environmental conservation (Sikkim Inspires, 2021).

**Common Service Centers (CSCs):**

Common Service Centers (CSCs) established across rural areas facilitate online payments and access to transportation-related services. These centers provide residents and tourists with easy access to services such as ticket booking, bill payments, and information on public transport schedules. Researchers noted that CSCs have improved accessibility and convenience for rural populations, promoting inclusive growth and development (Gretzel et al., 2015).

**Integrated Payment Systems:**

The implementation of integrated online payment systems for various transport-related services streamlines transactions for users. Tourists can now make payments for bus tickets, taxi services, and other transportation-related expenses using a single platform. This initiative enhances the convenience and efficiency of travel in Sikkim, making it easier for tourists to navigate the state (Choe et al., 2017).

**Smart Accommodations**

Smart accommodations in Sikkim leverage technology to enhance guest experiences while promoting sustainability.

**Smart Room Features:**

Hotels in Sikkim are adopting IoT technologies to offer smart room features such as automated lighting and climate control based on guest preferences. Researchers observed that these features enhance guest comfort and satisfaction, providing a more personalized experience (Neuhofer et al., 2015).

**Online Booking Systems:**

Many accommodations in Sikkim now provide online booking options, allowing guests to select rooms based on their preferences and budget. This digital transformation has made it easier for tourists to plan their stays and has increased the occupancy rates of hotels in the state (Smith, 2018).

**Contactless Check-In/Check-Out Procedures:**

To enhance safety and convenience, hotels in Sikkim are implementing contactless check-in/check-out processes using mobile apps. Stakeholders, including hotel managers and guests, have reported positive feedback on these innovations, which reduce wait times and enhance the overall guest experience (Gretzel et al., 2015).

**Sustainability Practices:**

Many hotels in Sikkim are adopting eco-friendly practices such as water conservation measures and waste management systems that align with smart tourism principles. Researchers noted that these practices contribute to the sustainability of the tourism sector and enhance the state's reputation as an eco-friendly destination (Ministry of Tourism, Government of India, 2021).

**Feedback Mechanisms:**

Digital platforms enable guests to provide immediate feedback on their experiences, allowing accommodations to make timely improvements. Stakeholders have highlighted the importance of these feedback mechanisms in maintaining high service standards and ensuring guest satisfaction (Choe et al., 2017).

**Local Community Engagement**

Engaging local communities in tourism development is crucial for sustainable practices and cultural preservation. Sikkim is promoting community-based tourism programs, training workshops for locals, cultural exchange programs, local artisan support programs, and digital platforms for community engagement to ensure that tourism benefits the local population.

**Community-Based Tourism Programs:**

Community-based tourism programs in Sikkim encourage local participation in tourism initiatives, providing economic benefits while preserving cultural heritage. These programs ensure that tourism development aligns with the needs and aspirations of local communities (Dam, 2022). By involving local residents in tourism activities, these programs create job opportunities and support local businesses, contributing to the overall economic development of the region.

**Training Workshops for Locals:**

Training workshops equip locals with skills related to hospitality and tourism management, improving service quality and enhancing their employability. Researchers observed that these workshops help locals gain valuable knowledge and expertise, enabling them to provide better services to tourists and contribute to the growth of the tourism sector (Sikkim Inspires, 2021).

**Cultural Exchange Programs:**

Cultural exchange programs promote mutual understanding and appreciation of Sikkim's rich heritage. These programs facilitate interactions between tourists and local communities, fostering cultural exchange and enhancing the overall tourist experience. Stakeholders highlighted the importance of such programs in preserving cultural traditions and promoting cultural tourism (Ministry of Tourism, Government of India, 2021).

**Local Artisan Support Programs:**

Local artisan support programs help sustain traditional skills and provide income opportunities for artisans. By promoting local crafts through tourism, these programs support the livelihoods of artisans and preserve Sikkim's cultural heritage. Researchers noted that these initiatives contribute to the sustainability of the tourism sector and promote the unique cultural identity of Sikkim (Gretzel et al., 2015).

### Digital Platforms for Community Engagement:

Digital platforms for community engagement allow locals to voice their opinions regarding tourism development, ensuring that community needs are addressed. These platforms provide a forum for locals to share their perspectives, participate in decision-making processes, and collaborate with tourism authorities. Researchers observed that such platforms enhance transparency and promote inclusive tourism development (Choe et al., 2017).

### Recommendations:-

To further enhance smart tourism practices in Sikkim, it is recommended to:

- **Expand Technological Infrastructure:** Invest in robust technological infrastructure to support the continued development of smart tourism initiatives.
- **Enhance Training Programs:** Provide comprehensive training programs for local businesses and communities to ensure effective utilization of smart tourism technologies.
- **Focus on Data Privacy and Security:** Implement stringent measures to address data privacy and security concerns, building trust among tourists and stakeholders.
- **Promote Sustainable Tourism:** Encourage the adoption of sustainable tourism practices through incentives and awareness campaigns.

### Future Research Scope:-

Future research could explore the long-term impacts of smart tourism practices on the local economy and environment. Additionally, studies could examine the effectiveness of specific smart tourism initiatives in improving tourist satisfaction and promoting sustainable development.

### Conclusion:-

The integration of ICT tools in smart tourism has significantly enhanced the travel experience in Sikkim. By adopting technologies such as mobile applications, IoT, Big Data Analytics, AI, AR, VR, NFC, cloud computing, and social media platforms, Sikkim has created a smarter, more efficient, and sustainable tourism environment. These advancements have improved visitor satisfaction and promoted sustainable tourism practices, optimizing resource use and minimizing environmental impact. Engaging local communities through training workshops and cultural exchange programs ensures that the benefits of tourism are widely distributed. As technology continues to evolve, its role in shaping the future of tourism in Sikkim will become increasingly significant. Continued investment in technological infrastructure and comprehensive training programs will be essential for maintaining these smart tourism practices. Sikkim's commitment to leveraging technology underscores its dedication to creating a sustainable and enriching tourism environment.

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