"Data-Driven Analysis of Tourist Attractions: Revenue, Accessibility, and Visitor Trends"

Md Sahabuddin
*Roll: **20,** EDGE Batch-**63***
University of Barishal

Abstract

This study examines the tourism sector in Bangladesh, focusing on revenue trends, visitor demographics, accessibility, and seasonal impacts. The research incorporates data from government reports, surveys, and statistical records to identify key tourist destinations and their economic contributions. Findings reveal that Kuakata Beach generates the highest revenue, while winter and spring are peak tourist seasons. Accessibility remains a priority, though infrastructure limitations and funding constraints pose challenges. Recommendations include dynamic pricing, strategic marketing, improved accessibility, and sustainable tourism development. This study serves as a foundation for policymakers and stakeholders to enhance Bangladesh's tourism industry for long-term economic growth.

Introduction

Tourism plays a vital role in Bangladesh's economy, contributing significantly to revenue generation and cultural exchange (Bangladesh Tourism Board Report, 2023) . This report aims to provide a detailed analysis of various tourist destinations across the country, focusing on revenue trends, visitor statistics, accessibility, and seasonal impacts. By leveraging data from multiple sources, including government reports (Ministry of Civil Aviation & Tourism, 2023) and survey responses, this study identifies key attractions and evaluates their economic and social contributions.

The objective of this report is to assess the effectiveness of the current tourism infrastructure, highlight areas for improvement, and propose strategic recommendations to enhance the visitor experience. By understanding patterns in tourism activities, authorities and stakeholders can optimize resources, promote sustainable tourism, and ensure long-term economic benefits. The findings presented here offer valuable insights for policy formulation and investment planning in Bangladesh's growing tourism sector.

Research Methodology

This study employs a combination of quantitative and qualitative research methods to analyze tourism data in Bangladesh. The methodology includes:
• Data Collection:
o Primary data was obtained from surveys, questionnaires, and government tourism reports.
o Secondary data was sourced from academic studies, tourism board records, and market analysis reports.
• Data Analysis:
o Statistical methods are applied to assess revenue trends, visitor demographics, and seasonal patterns (Statistical Yearbook of Bangladesh, 2023).2
o Correlation analysis to determine relationships between ticket prices, visitor numbers, and development costs.
• Comparative Analysis:
o Benchmarking against regional and international tourism models (World Tourism Organization (UNWTO) Reports, 2023)
o Evaluating accessibility standards and promotional efforts in different divisions.
• Limitations:
o Potential data gaps due to inconsistent record-keeping in some locations.
o External factors, such as weather conditions and political stability, affect tourism trends

Result

• Key Findings
  o Top Tourist Spots:
    ▪ Kuakata Beach: Highest revenue generator (Tk 100 million annually, 40,000 monthly visitors).
    ▪ Lalbagh Fort & Jhulonto Bridge: Popular cultural and adventure destinations.
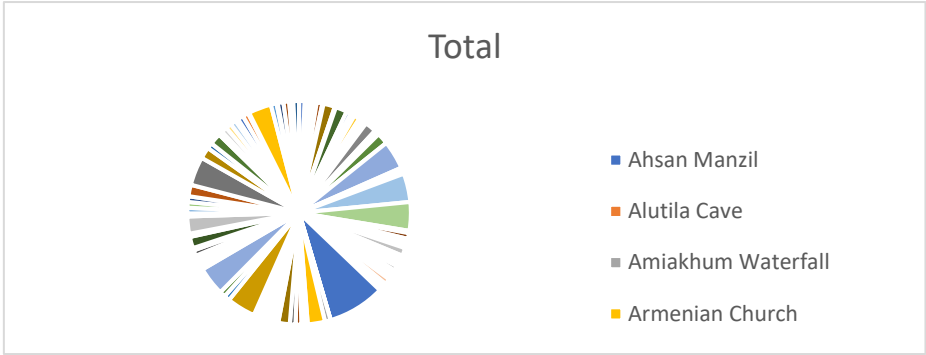

  o Revenue & Accessibility
    ▪ Most attractions have low or no entry fees.
    ▪ Government revenue varies significantly across sites.
    ▪ Majority of spots have facilities for disabled visitors.
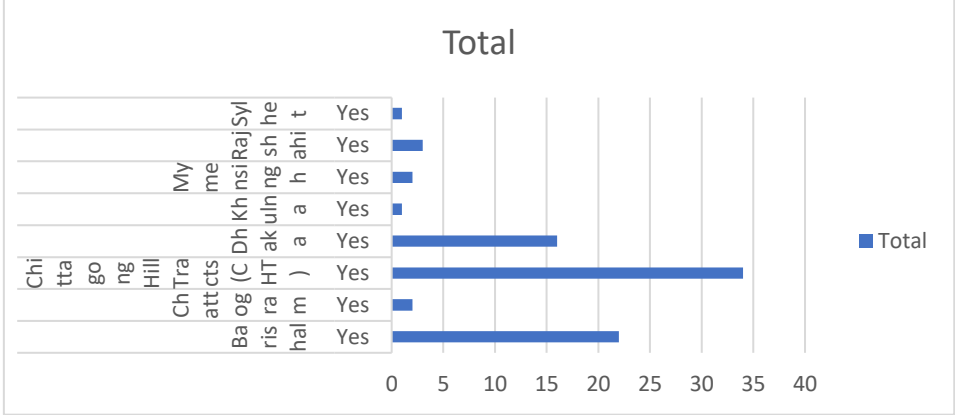
  o Seasonal Trends
    ▪ Winter & Spring: Peak seasons for tourism.
    ▪ Off-Peak Seasons: Need for promotional strategies.
  o Correlation Between Ticket Price and Development Cost.
    ▪ The correlation value of 0.04379 indicates an extremely weak or negligible linear relationship between development cost and ticket price. This suggests that the development cost of a tourist attraction does not have a significant direct influence on its ticket price.
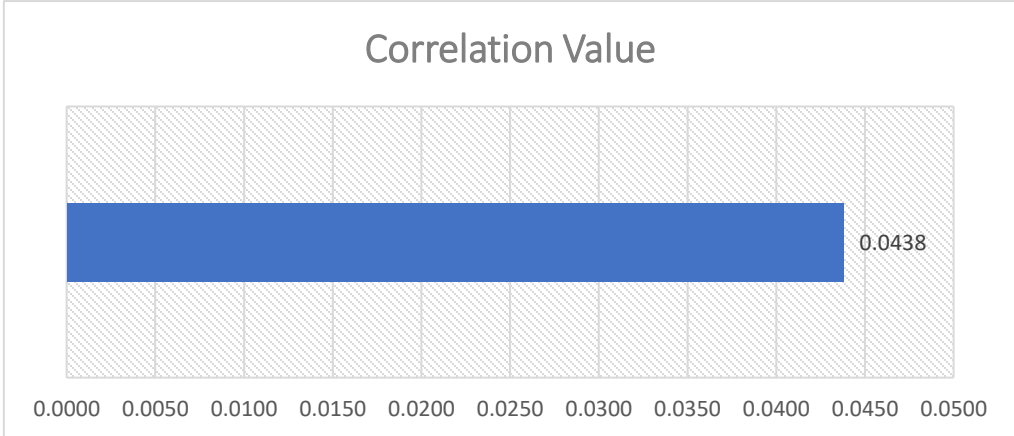
  o Top Centuries Tourist Spots:
    ▪ The sights built in the 14th century are very popular among tourists. We can understand this by looking at this pie chart.
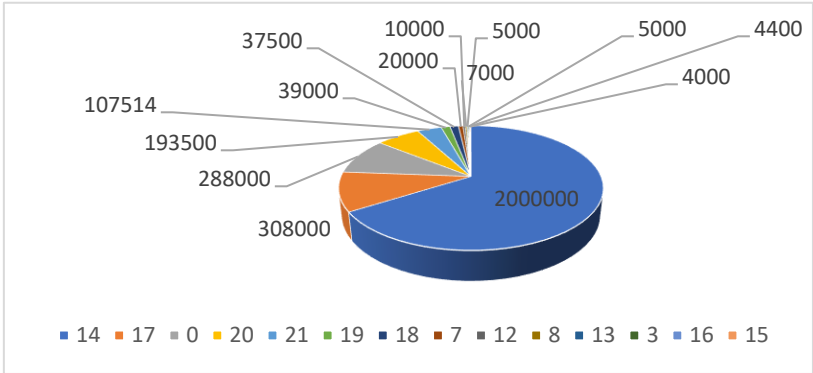
  o Comparison Between Govt. Revenue and Development Cost:
    ▪ A ratio greater than 1 means revenue exceeds cost; less than 1 means revenue is lower than cost.
    ▪ The strong correlation (R=0.9577) suggests that continued investment in tourism infrastructure may further increase government revenue.

Summary of Tourist Spots Data

• The "Data Sheet" provides detailed information about several tourist spots in Bangladesh. Below is an overview:
• *Key Attributes*:
  o **Locations**: Spanning across Barishal, Dhaka, and the Chittagong Hill Tracts (CHT).
  o **Categories**: Historic monuments, markets, beaches, and cultural sites.
  o **Ticket Prices**: Range from free to a maximum of Tk 20.
  o **Accessibility**: Most spots are accessible for disabled visitors.
  o **Peak Seasons**: Winter and Spring dominate as the most favorable times for tourists.
• *Revenue and Visitors*:
  o Kuakata Beach generates the highest annual revenue of Tk 100,000,000 with 40,000 monthly visitors.
  o Lalbagh Fort and Jhulonto Bridge are prominent attractions with moderate revenue and visitor numbers.
• *Development Costs*:
  o Vary from Tk 1,000,000 to Tk 50,000,000 annually
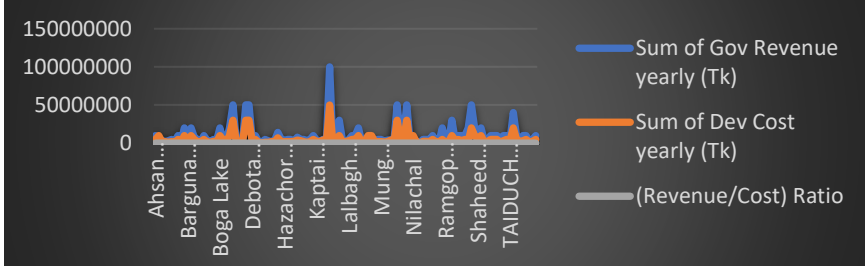
Challenges

• **Infrastructure Limitations**: Many tourist spots lack modern facilities, such as proper roads, accommodations, and sanitation facilities.
• **Environmental Concerns**: Unregulated tourism can lead to pollution, habitat destruction, and waste management issues.
• **Seasonal Dependency**: Tourism in Bangladesh is highly seasonal, with winter and spring seeing the highest footfall, leading to revenue fluctuations.
• **Lack of Promotion**: Many potential attractions remain under-promoted, reducing visitor engagement.
• **Security and Safety**: Some remote tourist spots face security challenges, which can deter visitors.
• **Funding Constraints**: Limited budget allocations for maintenance and development slow down the enhancement of tourism infrastructure.

Recommendations

• **Enhancing Revenue**:
  o Introduce dynamic ticket pricing for high-demand seasons.
  o Leverage partnerships with the private sector for promotional campaigns.
• **Improving Accessibility**:
  o Ensure uniform standards of accessibility across all divisions.
  o Develop mobile applications for easier navigation and information.
• **Promoting Seasonal Tourism**:
  o Offer discounts and special packages during less busy seasons.
• **Resource Allocation**:
  o Optimize development costs by focusing on high-impact projects.
  o Evaluate revenue-to-cost ratios to prioritize investment in profitable locations.

Conclusion

Bangladesh's diverse tourist attractions offer significant cultural, natural, and economic value. Strategic improvements in revenue management, accessibility, and promotional efforts can further elevate the tourism sector. This report serves as a foundation for informed decision-making to foster sustainable growth.

References

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