# PROJECT REPORT DOCUMENTATION ON

# Analysing the Performance & Efficiency of The Radisson Hotels using Data Visualization Techniques using IBM COGNOS

## TEAM ID

NM2023TMID07231

# DOMAIN

## **DATA ANALYTICS WITH IBM COGNOS**

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#### **ABSTRACT**

The hospitality industry, characterized by its competitive nature and ever-evolving customer expectations, demands a keen focus on performance and efficiency. This analysis delves into the realm of Radisson Hotels, a prominent global hotel chain, to understand the nuances that define their operational success. The hotel industry is a broad category of businesses that provide lodging services for travellers and tourists. This can include a wide range of establishments, from luxury resorts to budget-friendly motels, as well as extended stay hotels, boutique hotels, and more. Hotels can be found in nearly every corner of the world, and are often a major component of the tourism and travel industry in a given area. It involves an in-depth exploration of key performance indicators (KPIs) like occupancy rates, revenue per available room, and guest satisfaction scores. Financial data analysis unveils insights into the company's fiscal health, while scrutinizing operational processes such as inventory management, staff productivity, and sustainability practices offers a holistic view. To overcome this problem, in order to provide hotel of Radisson of revenue and market sales by implementing a comprehensive strategy. This includes pricing optimization, innovative marketing, online presence improvement, diversified distribution, operational efficiency, loyalty programs. These efforts seek to position the hotel as a top choice for travellers and regain prominence in the hospitality industry.

## LIST OF FIGURES

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## LIST OF ABBREVIATIONS

## **ABBREVIATION EXPANSION**

KPI KEY PERFORMANCE INDICATORS

FR FUNCTIONAL REQUIREMENTS

NFR NON-FUNCTIONAL REQUIREMENTS

AR AUGUMENTED REALITY

VR VIRTUAL REALITY

## **INTRODUCTION**

#### 1.1 PROJECT OVERVIEW

The project aims to conduct a comprehensive analysis of the performance and efficiency of Radisson Hotels, a renowned global hospitality chain, with a focus on enhancing their operational excellence and customer satisfaction. In this endeavor, we will employ a multidisciplinary approach that integrates data analytics, financial assessment, customer feedback, and market research to evaluate key performance indicators, such as occupancy rates, revenue per available room, cost management, and customer reviews.

The hospitality industry is highly competitive, and Radisson Hotels have established themselves as a prominent player in the global hotel market. As such, understanding and analyzing their performance and efficiency is crucial for both the hotel chain itself and the broader industry. The gathered data will next go through a thorough analysis utilizing statistical methods and tools for data visualization. The evaluation of rivals' pricingtactics, marketing initiatives, value-added services, and user experiences will be the main emphasis of the analysis. To measure consumer happiness and pinpoint trouble points, reviews, ratings, and client comments will also be analyzed.

Furthermore, project aims to delve into the factors affecting the performance and efficiency of Radisson Hotels, conducting an analysis of operational, customer feedback, and market trend In market analysis of movements and spot opportunities for growth and innovation, this will include keeping an eye on changes in the industry, technology improvements, and consumer preferences. The competition analysis's results will give the Radisson hotel useful information that will help it to improve its value proposition, sharpen its business strategy, and possibly achieve acompetitive edge in the fast-moving travel market.

#### 1.2 PURPOSE

Now-a-days, by giving people a quick and easy way to plan and book their vacations, play a crucial role in the travel business. A Radisson hotel main function is to provide acentralized platform that compiles data from multiple travel serviceproviders, including packages, hotels, car rental agencies, and tour operators. By doing this, they make the process of organizing a tripsimpler and help users save time and effort.

Users are empowered to evaluate costs, availability, and features of various travel services on these platforms, enabling them to make selections that are in line with their tastes and financial constraints. Additionally, Radisson hotel's offer thorough data about locations, packages, modes of suite room, and attractions to make sure users have access to all the information they need to make informed travelplans. A Radisson hotel goal is to improve user experience by providing convenience, suitable packages, and thorough information, making the process of planning, and booking travel easy and enjoyable.

#### LITERATURE SURVEY

## 2.1 DATA ANALYSIS FOR HOTEL REVIEWS IN MULTI-LANAGUAGE BASED ON FACTOR AGGREATION OF SENTIMENT POLARIZATION.

Online booking platform eases customer to book hotel easily prior to the arrival date. However, problem arises if customer thinks hotel quality is not as good as promised on online booking platform. Hotel rating which is presented on online booking platform is not sufficient to fully represent hotel quality in terms of services and facilities. On the other hand, hotel's management also needs to regularly monitor hotel quality perceived by the customer in order to maintain and improve hotel quality. The proposed system uses factor aggregation of sentiment polarization approach in Vader Sentiment and SentiwordNet which uses different methods (Lexicon-based and Rule-based) to calculate sentiment degree of hotel reviews. Before being analyzed using sentiment analysis, multi-language review is standardized automatically into English.

# 2.2 FEATURE BASED EVALUATION OF HOTEL REVIEWS AND RATINGS FOR DIFFERENTLY ABLED PEOPLE

Hotel industry is an essential in professional as well as casual events.

People with disability face problems as the products and services available focus mostly on general public. This system focuses on the features that are essential to a disabled person for booking a hotel room or service. The user can view the hotels ranks feature wise and select accordingly. People can check whether or not the hotel fulfills their special needs. They can hence decide which hotel to accommodate before they reach the place.

## 2.3 A BIG DATA ANALYTICS FRAMEWORK FOR ANALZING GLOBAL TOURISM TRENDS OF INDIANS USING SOCIALMEDIA ANALTICS

While planning to visit a place it is very difficult to decide any place based on our preferences that may include, availability of veg food or weather a place is family friendly or not. Searching out such place is really a cumbersome task which involves going around good number of websites and social media platforms and reading never ending reviews. The system extracts these reviews and analyzes with the help of machine learning model based on five factors that are of common concern like Veg\_food availability, Family friendliness, destination and hotels around etc., based on user's true experiences. The system generates likeness score on the scale of 0 to 1, for each destination to visit on the basis of these metrics and an overall rating is represented visually for the ease of future user.

## **IDEATION &PROPOSED SOLUTION**

## 3.1 PROBLEM STATEMENT DEFINITION

I am (Customer r)	I'm trying to	But	Because	Which makesme feel
Traveller	Booking a Hotel room through mobile phone	It takes a long time.	1. The website doesn't provide sufficient about the hotel details (i.e., vacancies of room, size of room).  2. Website is not responsive and doesn't have a mobile version.	Dissatisfied

Business Client	Booking a meeting room through mobile phone.	It takes a long time for finding a reliable meeting room for the event.	1. It makes technical issues on the hotel's website or booking platform. 2. Website doesn't provided details (i.e., desired date and time for booking meeting room)	Aggrived
Traveller	Booking a car rental through mobile phone.	It takes long time for finding a reliable car rent.	1. Travelers may face challenges in securing their needs such as limited budget. 2. They face many fraudulent car rental companies are there andmany peoplegot scammedby overrated rental charges.	Disenchant

Traveller	Booking a special package through mobile phone.	1. It takes lack of personalized recommendations. 2. Difficult in finding suitable accommodations and it takes a long time.	1. These packages often include dining credits, spa treatments, local attractions, or other special perks, allowing guests and make it more memorable.  2. Lack of transparencyin pricing and fees.	Frustrated
Traveller	Booking a suite room through mobile phone.	1. It appears that they are having difficulty understanding the overall expense of their suite room.  2. Lack of confidence in the booking procedure	1. Choosing a suite room at Radisson Hotel offers guests a more spacious and luxurious accommodation option. 2. These suite rooms often come with a separate living area, enhanced amenities, and additional comfort, making them an ideal choice for travelers seeking a more indulgent and comfortable stay.	Suspicion

## 3.2 EMPATHY MAP CANVAS

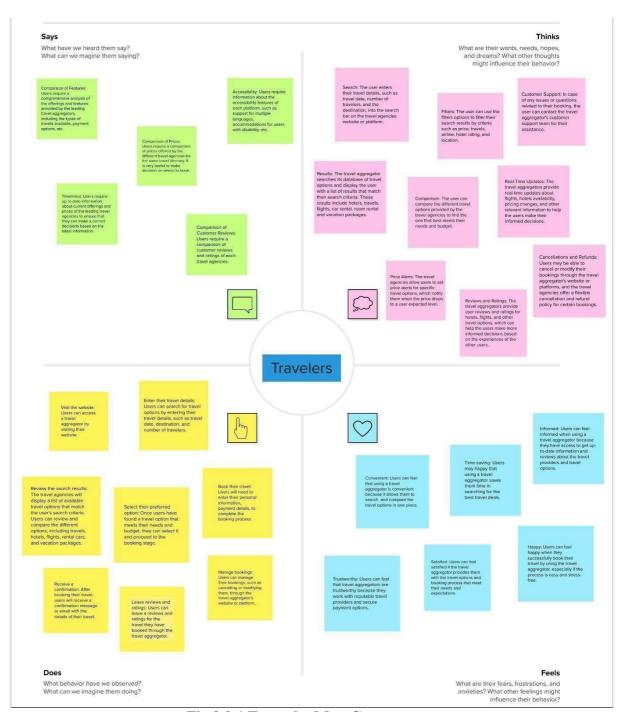


Fig 3.2.1 Empathy Map Canvas

#### 3.3 IDEATION & BRAINSTORMING

## **Step-1: Team Gathering, Collaboration and Select the Problem Statement**

## **PROBLEM**

The hotel industry encompasses a wide array of lodging businesses, from opulent resorts to budget-friendly motels, catering to travelers worldwide. These establishments play a vital role in the tourism and travel sector. Radisson, a longstanding player in the hospitality industry with a century of experience, currently faces challenges in losing market share and revenue in the luxury and business hotel segment due to competitive pressures and managerial shortcomings. To counter this, Radisson's managing director aims to integrate Business and Data Intelligence for improved decision-making. Our mission is to develop an analytics dashboard and narrative that delivers valuable insights to guide enhanced business strategies.

Fig 3.3.1 Problem Statement

## Step-2: Brainstorm, Idea Listing and Grouping

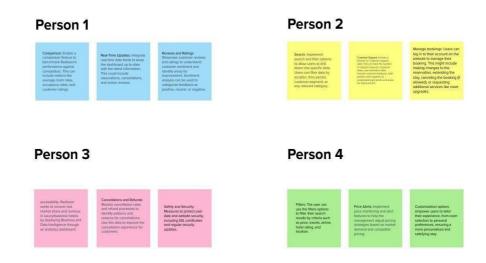


Fig 3.3.2 Brainstorming

## Group ideas

In response to our problem statement, we aim to leverage Data Analytics to create a user-centric analytics dashboard and narrative. This will facilitate better decision-making by offering features like search, filter, real-time updates, price alerts, customer support, result comparison, reviews, ratings, and cancellations, ensuring that Radisson can regain market share and revenue in the luxury/business hotels category through informed strategies.

## **Step-3: Idea Prioritization**



Fig 3.3.3 Idea Prioritization

## 3.4 PROPOSED SOLUTION

alyze the		
lata		
needs to		
h python,		
IBM Cognos, IBM DB2. The solution		
er		
ation.		
ffers		
A Radisson hotel is a user-friendly		
website that allows users to search and		
compare prices and offers for package,		
hotels, vacation rentals provided by		
ebsite		
omer such		
to assist		
ecisions.		
y python		
depth of		
package offerings.		

		Day to Day Updates.			
		Search, Filter and Compare options.			
		Cancellations and refunds.			
4.	Social Impact / Customer	Fraudulent activities can be prevented.			
	Satisfaction	Customers are satisfied in all aspects such			
		as safety and security, trustworthy website,			
		Time saving by search and filter options,			
		Day to Day updates, and Reviews and			
		Ratings			
5.	Business Model (Revenue	Most of the time, Radisson hotel generate			
	Model)	revenue by charging commissions to the			
		travel providers whose products and			
		services are featured on their website.			
		Some also earn revenue through			
		advertising, or by offering some additional			
		services such as package, suite room,			
		rental, etc.			

## REQUIREMENT ANALYSIS

## **4.1 FUNCTIONAL REQUIREMENTS**

FR	Functional Requirement	Sub Requirement (Story / Sub-Task)		
No.	(Epic)			
FR-1	User Registration	Registration through Form		
		Registration through Website		
		Registration through Gmail		
FR-2	User Confirmation	Confirmation via Email		
		Confirmation via OTP		
		Confirmation via Phone Call		
		Confirmation via Social Media Integration		
FR-3	User Dashboard	Evaluate Services and Features		
		Pricing and Deals Analysis		
		View User History and Ratings		
FR-4	User profile and	Create and manage their profile.		
	Preferences	Allow users to change their privacy		
		preferences and profile information as		
		necessary.		
FR-5	Output Generation	Report Generation		
		Content Generation		
		Itinerary Generation		
		Visual Representation		

## 4.2 NON- FUNCTIONAL REQUIREMENTS

FR No.	Non-Functional	Description		
	Requirement			
NFR-1	Usability	User-friendly Interface to facilitate		
		the user with easy processing.		
		Model provides Analyze and		
		Compare		
		Model provides Data Gathering		
		Model provides Evaluation Criteria		
		Model provides Visual		
		Representation of Prediction		
NFR-2	Security	Authentication-User can have his/her		
		own private dashboard to have		
		secured access		
NFR-3	Reliability	The model can run numerous		
		samples simultaneously and handle		
		massive amounts of data		
NFR-4	Performance	As the model is a combination of		
		python programming, the accuracy is		
		high		
NFR-5	Availability	The website is portable and mobile-		
		responsive as well. To run on any		
		device, it simply needs the most		
		minimum requirements		

NFR-6	Scalability	It can be extended further to provide API which can be used by third party organizations such as Logistics companies, etc.
NFR-7	Compliance	It makes sure that all legal criteria are met, and this includes travel industry rules as well as payment card industry standards

## PROJECT DESIGN

## **5.1 DATA FLOW DIAGRAMS**

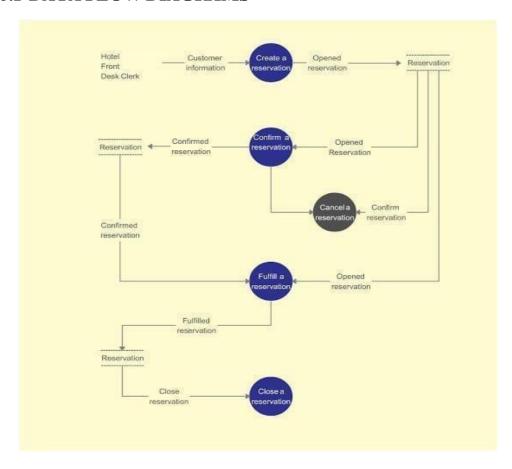
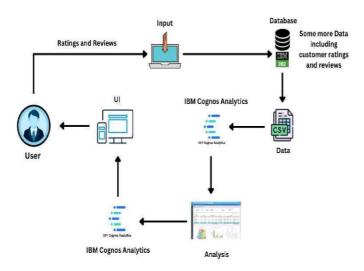


Fig 5.1 Data Flow Diagram of Radisson Hotel

## 5.2 SOLUTION AND TECHNICAL ARCHITECTURE

## 5.2.1 Solution Architecture



Fig~5.2.1~Solution~Architecture~of~Radisson~Hotel

## 5.2.2 Technical Architecture

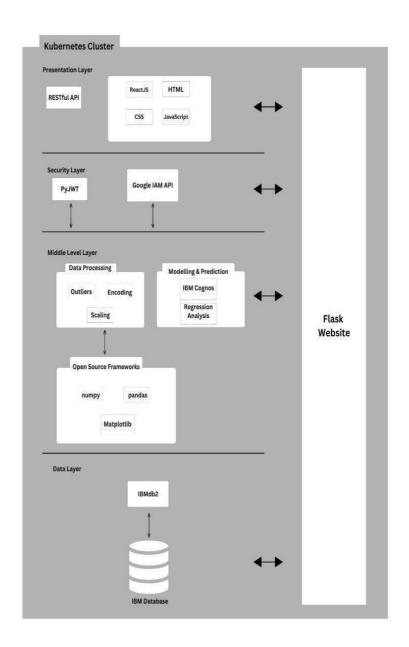


Fig 5.2.2 Technical Architecture of Radisson Hotel

## **5.3 USER STORIES**

User	Functional	User	User Story /	Acceptance	Priority	Release
Type	Requirement	Story	Task	criteria		
	(Epic)	Number				
Customer	Registration/	USN-1	I can login to	I can access	High	Sprint-3
	Login		the dashboard	the		
			through	dashboard		
			authentication.			
	Dashboard	USN-2	Once, I enter	I can view	High	Sprint-1
			the dashboard,	the special		
			I can enter my	package		
			personal	offer		
			details	details		
		USN-3	As a customer	I can select	Medium	Sprint-2
			I can select	concierge		
			the special	services		
			packages			
		USN-4	As a Traveler,	I can enter	High	Sprint-1
			I want to	the		
			access a	registration		
			loyalty	process for		
			program for	loyalty		
			exclusive	program		
			perks and	details		
			discounts.			
		USN-5	I can view the	I can book	Medium	Sprint-1
			hotel profiles	the hotel as		

			near the destination	per my convenience		
Admin		USN-6	place Once, I	Admin	Medium	Sprint-
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			completed all	confirms the		1,2,3,4
			the process I	booking		1,2,5,1
			can move to	transaction		
			the booking			
			confirmation			
Customer	Ratings	USN-7	As a	Ratings and	Low	Sprint-4
			customer,	customer		
			after booking	booking		
			confirmation I	details are		
			can give	stored in a		
			ratings about	data base by		
			the user	the admin		
			experience.			
Developer		USN-8	I can access	Package	Medium	Sprint-4
			the dashboard	details,		
			and view the	concierge		
			ratings from	services,		
			the customer	hotel profiles		
				are updated		
				according to		
				the ratings		
		USN-9	As a	I can request	High	Sprint-4
			developer, I	access for		
			can update the	data base		
			package	from the		

	details &	admin and	
	ratings to the	update the	
	data base and	data as soon	
	make the data	as possible	

## **CODING & SOLUTIONING**

#### 6.1 FEATURE-1

#### **Dashboard**

```
<!DOCTYPE html>
 <html lang="en">
 <head>
 <meta charset="UTF-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Dashboard</title>
 <link href="\static\css\style.css" rel="stylesheet">
 </head>
 <body>
 <section id="dashboard" class="services section-bg">
 <div class="container" data-aos="fade-up">
 <div class="section-title">
 <h2>Dashboard</h2>
 </div>
<div class="row">
<iframe src="https://us3.ca.analytics.ibm.com/bi/?perspective=dashboard&amp;
pathRef=.my_folders%2Fhotel%2Bdashboard&closeWindowOnLastView=
true&ui_appbar=false&ui_navbar=false&shareMode=embedded&
amp;action=view&mode=dashboard&subView=model0000018b4bcb9c9d_
00000002" width="1600" height="700" frameborder="0" gesture="media"
allow="encrypted-media" allowfullscreen=""></iframe>
```

```
</div>
</div>
</section>
</body>
</html>
```

#### 6.2 FEATURE-2

#### Report

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Report</title>
<link href="\static\css\style.css" rel="stylesheet">
</head>
<body>
<section id="report" class="services section-bg">
<div class="container" data-aos="fade-up">
<div class="section-title">
<h2>Report</h2>
 </div>
 <div class="row">
<iframe src="https://us3.ca.analytics.ibm.com/bi/?pathRef=.my_folders%</pre>
2FHotel%2BReport&closeWindowOnLastView=true&ui_appbar
=false&ui navbar=false&shareMode=embedded&action=run
&prompt=false" width="1300" height="700" frameborder="0" gesture=
"media" allow="encrypted-media" allowfullscreen=""></iframe>
</div>
</div>
</section>
</body>
</html>
```

#### 6.3 FEATURE-3

#### Story

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Story</title>
 <link href="\static\css\style.css" rel="stylesheet">
</head>
<body>
<section id="story" class="services section-bg">
<div class="container" data-aos="fade-up">
<div class="section-title">
 <h2>Story</h2>
 </div>
  <div class="row">
 <iframe src="https://us3.ca.analytics.ibm.com/bi/?perspective=story&amp;</pre>
pathRef=.my_folders%2Fhotel%2Bstory&closeWindowOnLastView=true
&ui_appbar=false&ui_navbar=false&shareMode=embedded&
amp;action=view&sceneId=model0000018b4c3a2792_00000000&
sceneTime=1700" width="1300" height="700" frameborder="0" gesture="media"
allow="encrypted-media" allowfullscreen=""></iframe>
    </div>
   </section>
</body>
</html>
```

## 6.4 DATABASE SCHEMA

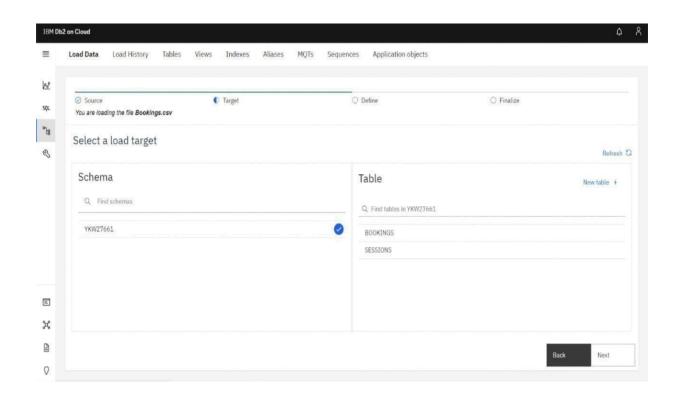


Fig 6.4 Database Schema

## **RESULTS**

## 7.1 PERFORMANCE METRICES

## 7.1.1 Amount of data rendered to DB2.

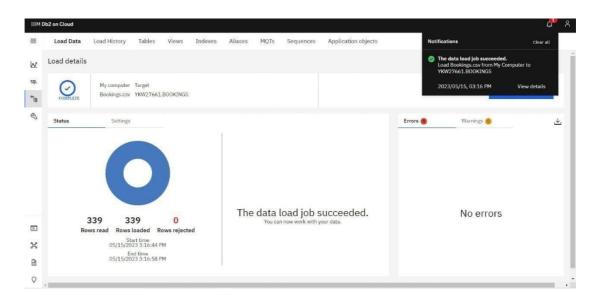


Fig 7.1.1 Amount of data rendered to DB2.

#### 7.1.2 Utilization of Data filters

#### **Dashboard**

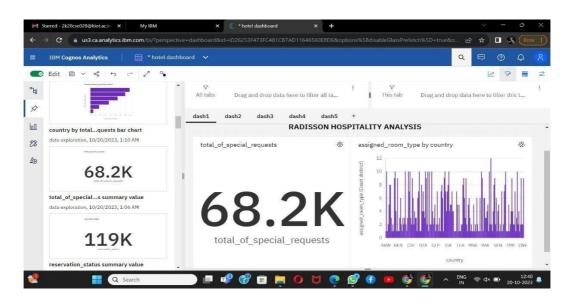


Fig 7.1.2.1 Dashboard of Analysis the Performance & Efficiency of the Radisson hotels.

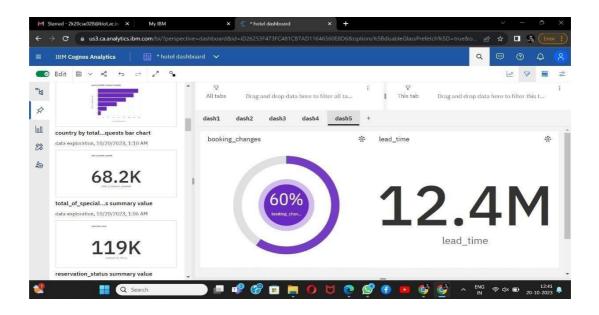


Fig 7.1.2.2 Dashboard of Analysis the Performance & Efficiency of the Radisson hotels.

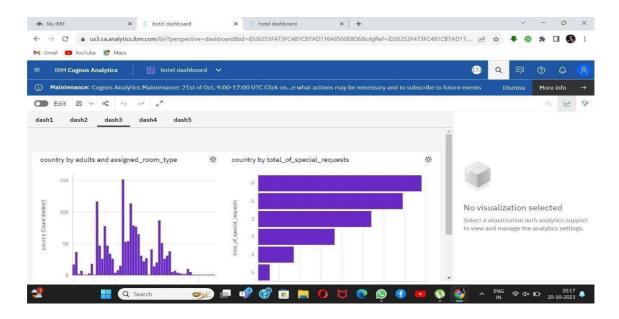


Fig 7.1.2.3 Dashboard of Analysis the Performance & Efficiency of the Radisson hotels.

## **Story:**

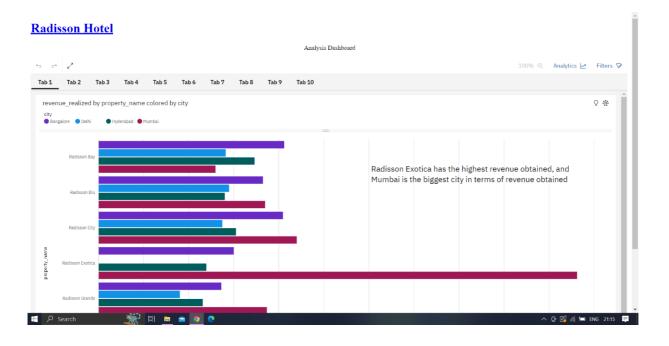


Fig 7.1.2.4 Story of Analysis the Performance & Efficiency of the Radisson hotels.

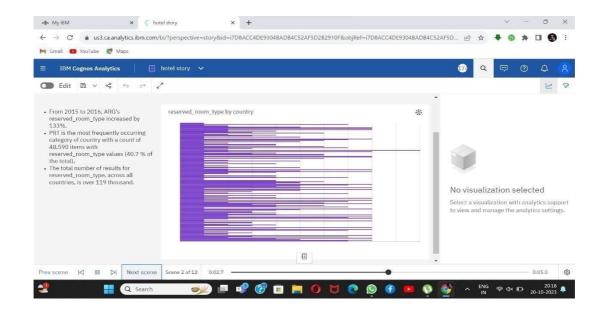


Fig 7.1.2.5 Story of Analysis the Performance & Efficiency of the Radisson hotels.

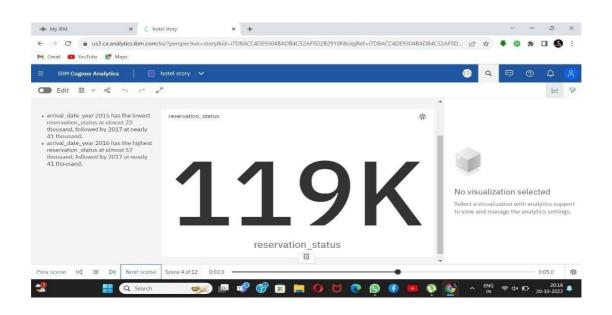


Fig 7.1.2.6 Story of Analysis the Performance & Efficiency of the Radisson hotels.

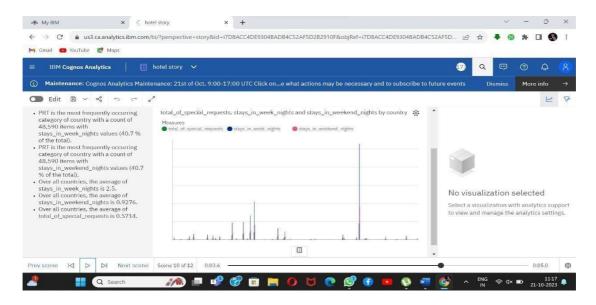


Fig 7.1.2.7 Story of Analysis the performance & Efficiency of Radisson hotels.

# Report

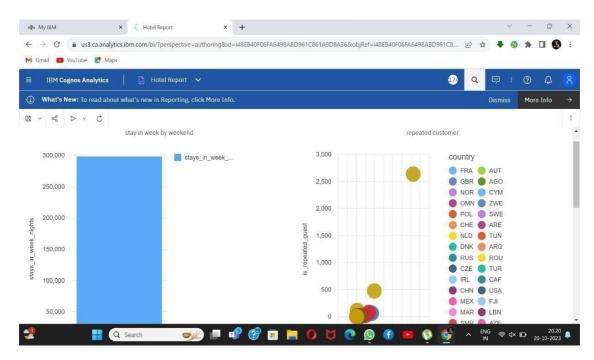


Fig 7.1.2.8 Report of Analysis the Performance & Efficiency of Radisson hotels.

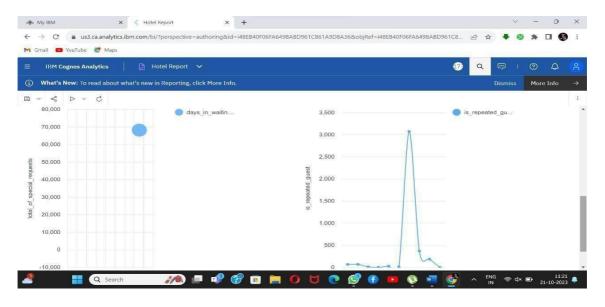


Fig 7.1.2.9 Report of Analysis the Performance & Efficiency of Radisson hotels..

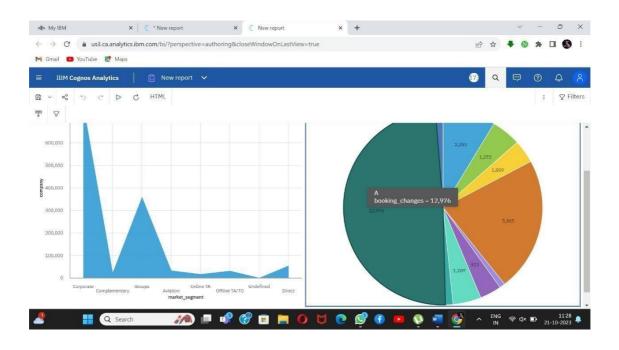


Fig 7.1.2.10 Report of Analysis the Performance & Efficiency of Radisson hotels.

#### 7.1.3 No. of. Calculation Fields

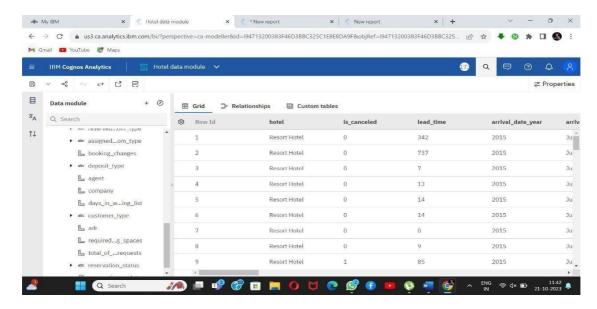


Fig 7.1.3 No. of. Calculation Fields

# 7.1.4 No. of. Visualizations/Graphs

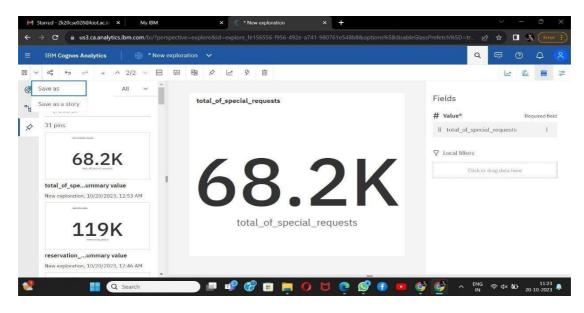


Fig 7.1.4.1 Total of Special Request.

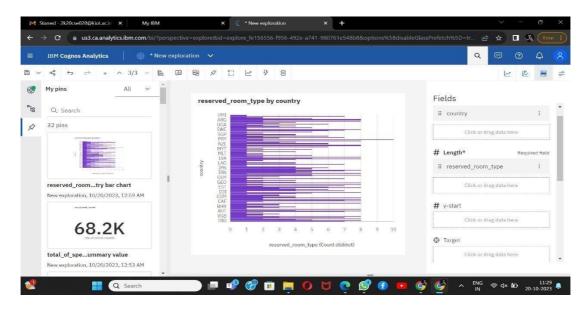


Fig 7.1.4.2 Total Room Reserved by the customer in country.

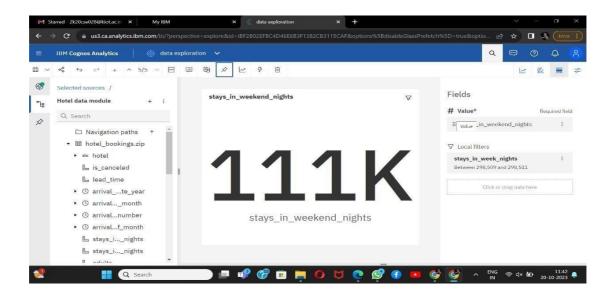


Fig 7.1.4.3 Customer Analysis according to the day

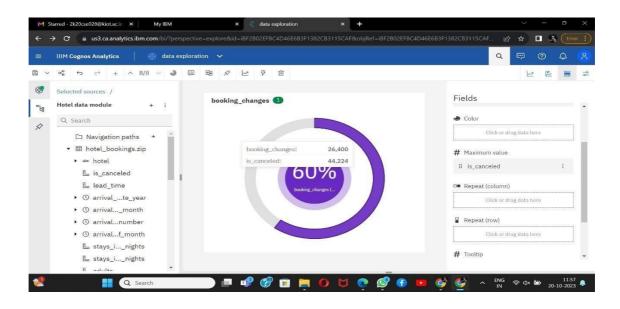


Fig 7.1.4.4 Overall Room Booking & Canceled Details.

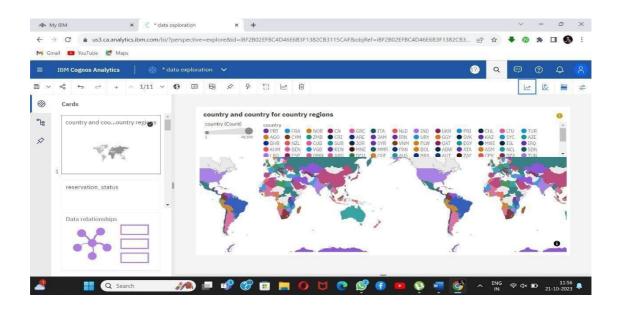


Fig 7.1.4.5 Customer Analysis as per Destination Country

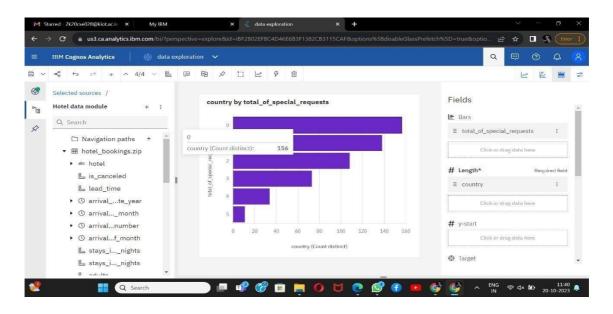


Fig 4.7.1.6 Total of Special Request by Country.

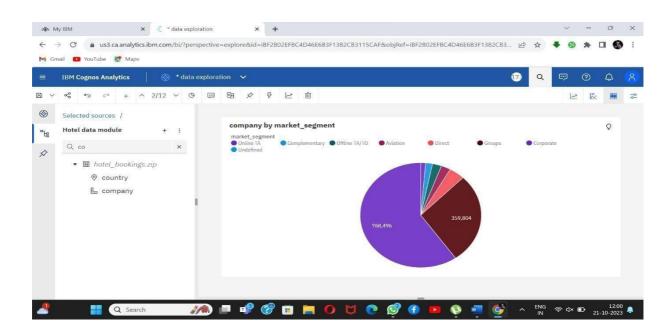


Fig 7.1.4.7 Overall Analysis of Market Segment.

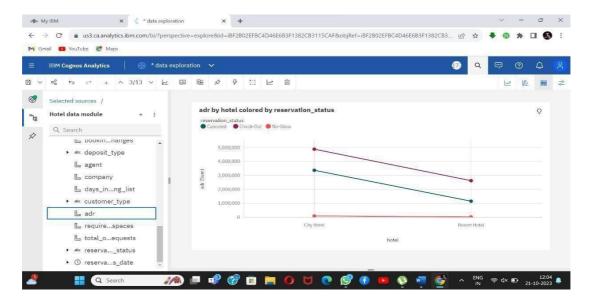


Fig 7.1.4.8 Hotel Analysis by Booking Status.

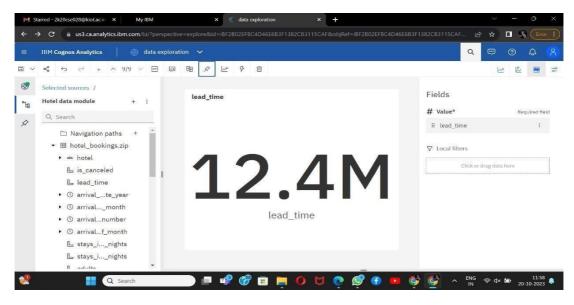


Fig 7.1.4.9 Total Time Generated According to day wise.

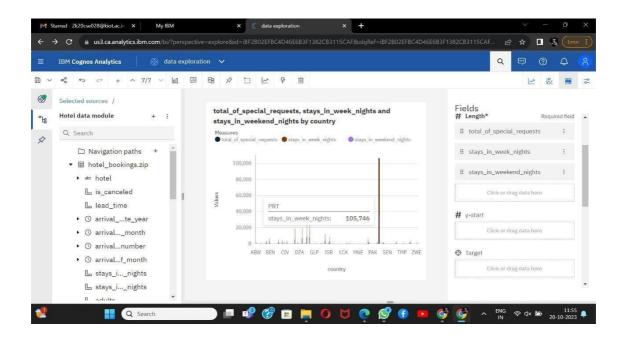


Fig 7.1.4.10 Passenger Bookings Platform Analysis

## ADVANTAGES AND DISADVANTAGES

#### 8.1 ADVANTAGES

- 1. Data-Driven Decision Making: Analyzing the performance and efficiency of Radisson Hotels provides the advantage of basing decisions on hard data rather than assumptions. This enables the company to pinpoint areas that need improvement and make strategic choices that are more likely to yield positive results. It fosters a culture of informed decision-making.
- 2. Operational Optimization: One of the primary advantages is the potential for operation optimization. By identifying inefficiencies in various processes, such as supply chain management, room turnover times, and energy consumption, the company can reduce costs and enhance resource allocation, leading to increased profitability.
- 3. Enhanced Customer Experiences: Analyzing customer feedback and preferences can result in improved guest satisfaction and loyalty. By addressing common complaints or concerns, Radisson Hotels can tailor their services and amenities to meet customer expectations, which can lead to higher occupancy rates and repeat business.

4. Industry Insights: The research findings can be valuable not only for Radisson Hotels but also for the broader hospitality industry. Sharing insights and best practices can contribute to elevating industry standards, fostering innovation, and fostering healthy competition.

#### 8.2 DISADVANTAGES

- Data Collection Challenges: One major drawback is the challenge of gathering and complicated, especially if Radisson Hotels have a large and diverse portfolio of properties. This may require dedicated data collection tools and personnel.
- 2. Resistance to Change: Implementing recommended changes based on the analysis might face resistance from existing staff and management. Staff may be resistant to altering established procedures, and management may be hesitant to invest in changes with certain with uncertain outcomes, potentially slowing down the process of operational improvement.
- 3. Cost: Making operational improvements based on the analysis can involve substantial investments, affecting short-term profitability. Upgrading facilities, staff training, and implementing new technologies can be expensive. The return on these investments may not be immediate, which can pose financial challenges.

## **CONCLUSION**

In conclusion, the comprehensive analysis of Radisson Hotels' performance and efficiency is a pivotal endeavor with a wide range of advantages. This project has provided valuable insights into the data-driven decision-making process that can lead to substantial improvements. By addressing operational inefficiencies and enhancing customer experiences, Radisson Hotels can position themselves for long-term success and competitiveness within the hospitality industry.

However, it's essential to acknowledge the challenges associated with this analysis. Data collection and integration can be complex and resource-intensive, making it imperative for organizations to have robust data management systems. Resistance to change within the organization can be a significant hurdle, requiring careful change management strategies and effective communication to gain buy-in from all stakeholders.

Looking ahead, the future scope of Radisson Hotel is promising. Advancements in technology, such as enhanced personalization, AR/VRintegration, blockchain and smart contracts, and a mobile-first approach, can enhance the user experience and offer more seamless and secure travelbookings. Furthermore, the industry can embrace sustainability, community- driven features, and cater to emerging markets to meet the evolving needs and preferences of travelers.

However, it's essential to acknowledge the challenges associated with this analysis. Data collection and integration can be complex and resource-intensive, making it imperative for organizations to have robust data management systems. The financial investments needed for operational improvements may affect short-term profitability, but it's crucial to view these expenses as investments in long-term success.

Furthermore, the constantly evolving market dynamics underline the need for ongoing analysis and adaptation. The analysis's effectiveness is subject to the everchanging external environment, and the project must remain flexible and open to adjustments to address unforeseen challenges effectively with a strategic approach and a commitment to innovation, this analysis can foster long-term growth and success for both the company and the industry as a whole.

#### **FUTURE SCOPE**

- 1. Enhanced personalization: Radisson Hotel are likely to invest more in advanced algorithms and artificial intelligence to provide personalized travel recommendations. By analyzing user preferences, behaviors, and past bookings, aggregators can offer tailored suggestions and options that match individual traveler preferences, making the booking process more convenient and efficient.
- 2. Augmented Reality (AR) and Virtual Reality (VR): Radisson Hotel is committed to enhancing the traveler's experience by embracing cutting-edge technologies such as Augmented Reality (AR) and Virtual Reality (VR). By integrating these immersive technologies, we aim to offer travelers virtual tours, 360-degree views of our accommodations, and interactive experiences.
- 3. Blockchain and Smart Contracts We are exploring the integration of blockchain technology and smart contracts to enhance the security and trust in our booking processes. By leveraging blockchain, we aim to streamline payments, reduce fraud, and enable direct and secure communication between our guests and our service providers. Smart contracts will play a pivotal role in automating and enforcing terms and conditions, ensuring a seamless and worry-free booking experience for all our guests.
- 4. Integration of ancillary services: At Radisson Hotel, we understand that a seamless and enjoyable travel experience goes beyond just accommodation. We are dedicated to enhancing our guests' journeys by expanding our services to include seamless integration with local transportation providers, assisting with restaurant reservations, offering access to event tickets, and providing a comprehensive range of travel-related services.

5. Sustainability and eco-friendly travel: With increasing awareness and emphasis on sustainability, Radisson Hotel can promote eco-friendly traveloptions. They can highlight accommodations with green certifications, carbon offset programs for flights, encouraging travelers to make conscious

#### **APPENDIX**

#### A.1 SOURCE CODE

#### index.html

```
<<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="utf-8">
   <meta content="width=device-width, initial-scale=1.0" name="viewport">
   <title>Radisson Hotel</title>
   <meta content="" name="description">
   <meta content="" name="keywords">
   <!-- Favicons -->
   rel="stylesheet" href="{{url_for('static',filename='img/favicon.png')}}"
rel="icon">
   <link rel="stylesheet" href="{{url_for('static',filename='img/apple-touch-icon.png')}}"</pre>
rel="apple-touch-icon">
   k rel="stylesheet"
href="{{url_for('static',filename='vendor/animate.css/animate.min.css')}}">
   <!-- Google Fonts -->
   link
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,7
00,700i|Play fair + Display: ital, wght@0,400;0,500;0,600;0,700;1,400;1,500;1,600;1,700|Polymer | Polymer | Polyme
ppins:300,300i,400,400i,500,500i,600,600i,700,700i" rel="stylesheet">
   <!-- Vendor CSS Files -->
   k rel="stylesheet"
href="{{url_for('static',filename='vendor/animate.css/animate.min.css')}}">
   <link rel="stylesheet" href="{{url_for('static',filename='vendor/aos/aos.css')}}">
   k rel="stylesheet"
href="{{url_for('static',filename='vendor/bootstrap/css/bootstrap.min.css')}}">
```

```
k rel="stylesheet" href="{{url_for('static',filename='vendor/bootstrap-
icons/bootstrap-icons.css')}}">
 k rel="stylesheet"
href="{{url_for('static',filename='vendor/boxicons/css/boxicons.min.css')}}">
 k rel="stylesheet"
href="{{url_for('static',filename='vendor/glightbox/css/glightbox.min.css')}}">
 <link rel="stylesheet" href="{{url_for('static',filename='vendor/swiper/swiper-</pre>
bundle.min.css')}}">
 <!-- Template Main CSS File -->
 <link rel="stylesheet" href="{{url_for('static',filename='css/style.css')}}">
 * Template Name: Restaurantly - v3.9.1
 * Template URL: https://bootstrapmade.com/restaurantly-restaurant-template/
 * Author: BootstrapMade.com
 * License: https://bootstrapmade.com/license/
<body>
 <!-- ====== Top Bar ====== -->
 <div id="topbar" class="d-flex align-items-center fixed-top">
  <div class="container d-flex justify-content-center justify-content-md-between">
  </div>
 </div>
 <!-- ===== Header ===== -->
 <header id="header" class="fixed-top d-flex align-items-cente">
  <div>
   <h1 class="logo me-auto me-lg-0"><a href="{{ url_for('index') }}">Radisson
Hotel</a></h1>
   <!-- Uncomment below if you prefer to use an image logo -->
   <!-- <a href="index.html" class="logo me-auto me-lg-0"><img
src="assets/img/logo.png" alt="" class="img-fluid"></a>-->
     <div class="section-title">
      <center>Analysis Dashboard</center>
```

#### <iframe

src="https://us3.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my\_folders%2FNew%2Bdashboard&closeWindowOnLastView=true&ui\_appbar=false&ui\_navbar=false&shareMode=embedded&action=view&mode=dashboard&subView=model0000018b6d5e14fc\_00000000" width="1500" height="820" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>

```
</div>
</div>
</section><!-- End Chefs Section -->
</body>
</html>
```

## A.2 GITHUB & PROJECT VIDEO DEMO LINK

## **GitHub**

Link: <a href="https://github.com/CynicalStoik/Naan-Mudhalvan">https://github.com/CynicalStoik/Naan-Mudhalvan</a>

# Project Demo Video

Link:

 $\frac{https://drive.google.com/file/d/166mDVaEVGODsW\_QusnJIOfqBeyKPx2V5/vie}{w?usp=sharing}$