Leveraging Ski Resort Industry Analysis

i. Introduction

- a. Skiing is one of the most popular winter outdoor recreation activities in the world. Ski resort industry is composed of companies engaged in operating skiing areas, facilities and equipment such as ski lifts and tows. Comprehensive data analysis provides in-depth understanding of the industry to help these mountain resort businesses increase their operative performance, grow revenue, maximize retention of existing customers and identify future development opportunities.
- b. The dataset used for this analysis report covers the most famous ski resorts in the world with all range of features critical for industry evaluation.

This can be found on Kaggle.com official website https://www.kaggle.com/datasets/migueldefrutos/ski-resorts-world-wide. It contains 5479 rows and the following columns:

- url
- rate
- name of resort
- stars
- km freeride

-	continent
-	country
-	state/province
-	altitude
-	easy
-	intermediate
-	difficult
-	adult
-	currency
-	ski resort size
-	slope offering, variety of runs
-	lifts and cable cars
-	snow reliability
-	access, on-site parking
-	orientation (trail map, information boards, sign-postings)
-	cleanliness and hygiene
-	environmentally friendly ski operation

mountain restaurants, ski huts, gastronomy
apres-ski
accommodation offering directly at the slopes and lifts
families and children
beginners
snow parks
cross-country skiing and trails
latitude
longitude

total kms.

ii. Analysis Methodology Followed

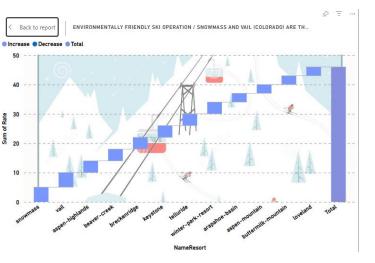
- a. Power BI has been preferred to Tableau as an analytical tool in order to analyze the data for several reasons. Power BI provides more flexibility regarding choosing and working with visuals. Power BI interface is easier to navigate and use in visualization creation process. Also, dashboarding platform is more convenient to make simple yet effective dashboards.
- b. Visualization creation process. I started the analysis off with General Geographic Overview. Then, I divided the data into three reports Area and Facility Analysis, Customer Service Analysis, Activity and Entertainment Analysis.

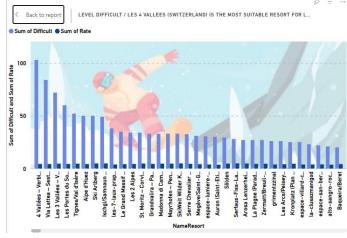
General Geographic Overview is an introduction to the data that conveys some general background information on different ski resorts around the world. Looking at the map and "the biggest resorts" chart represents a big picture on the topic before going into details.

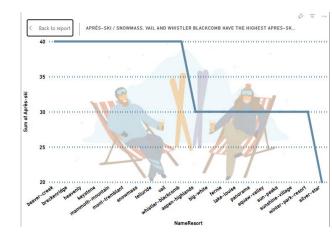
Area and Facility Analysis is intended to establish and evaluate relations between resort's rate and such metrics as number of lifts and cable cars, cross-country skiing, accommodation, orientation, etc. The data was narrowed down to Colorado ski resorts.

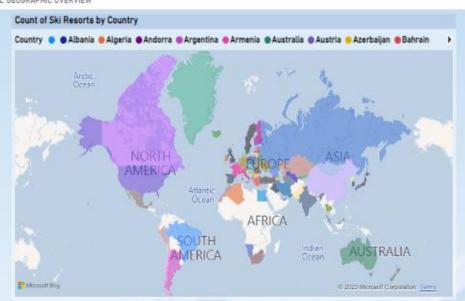
Customer Service Analysis is looking into the target audience and cleanliness measures focusing on Europe continent.

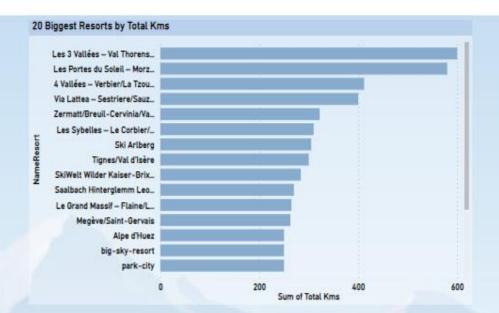
Activity and Entertainment Analysis examines such metrics as mountain restaurants, apres-ski, snow parks, etc using North America example.

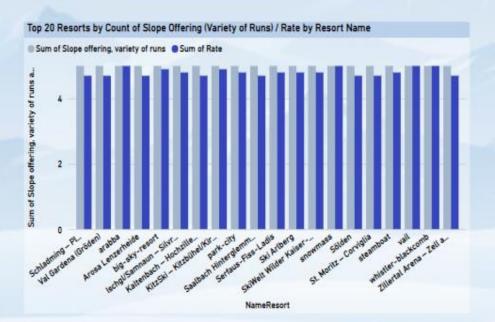


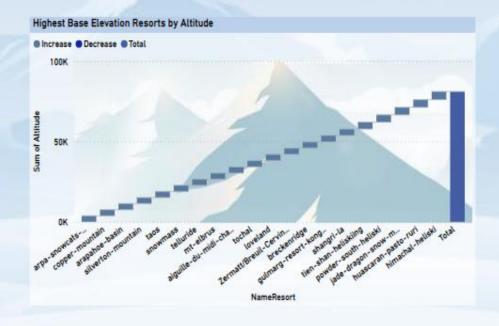


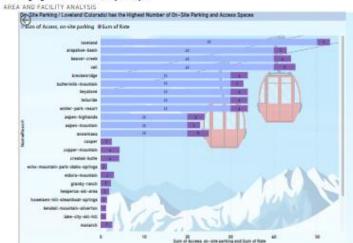


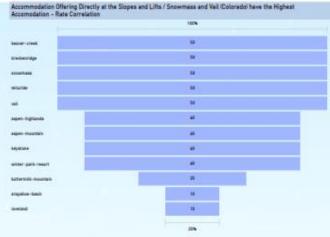


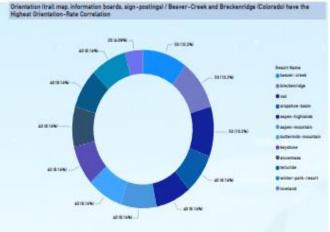






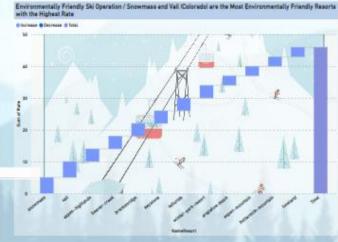












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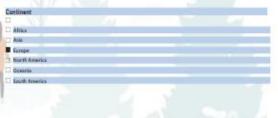
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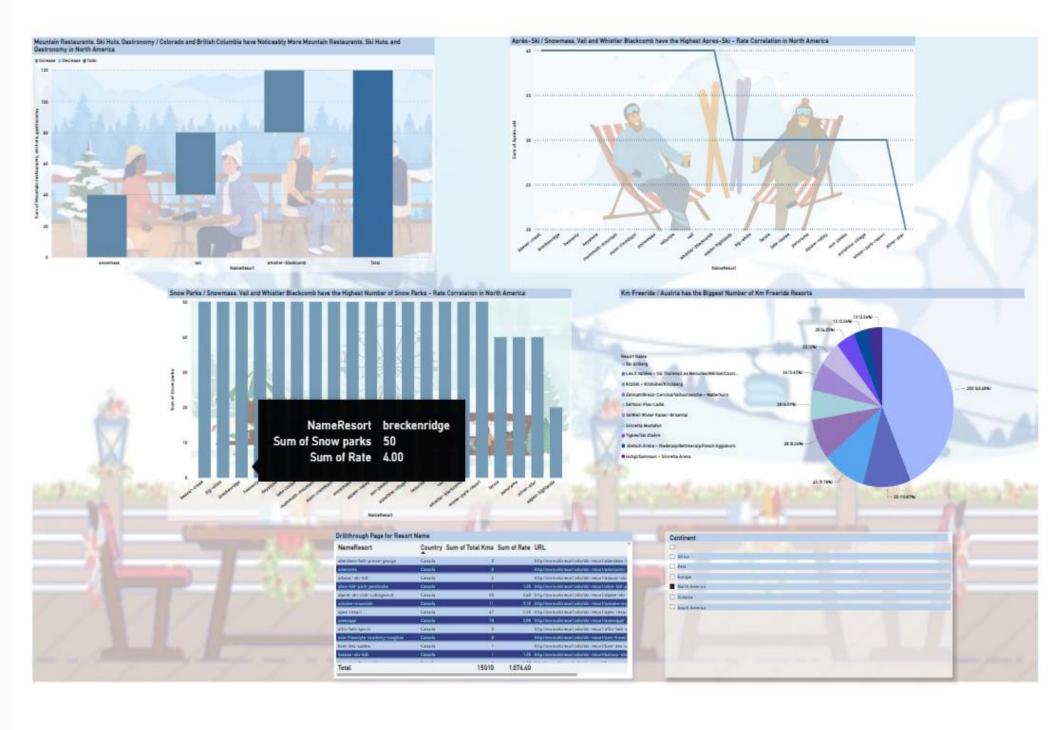
Leveraging Ski Resort Industry Analysis CUSTOMER SERVICE ANALYSIS Adult / Sitzberg-Fischingen is the Most Adult Suitable Resort in Switzerland Families and Children / Austria Accounts for the Majority of Resorts for Families and Children Beginners / Europe Accounts for the Majority of Resorts for Beginners If have of Adult @ horn of Natur # Sum of Families and children @ Sum of Rate State of Regioners & Sun of State Antoget - Material Rat Kleinkrichtwiss. Revisio - Crea Matca Baranete Bilgela/Namendurg/Andlast Minches/Tirbe: - Mossily Crane-Horiana Feithers/Kandelseand - Cherokhart. Dattir - Minatory Garmach-Classic - Garmach-Part. Date Massield - Hermager Level Easy / Glenshee and Cairngorm Mountain are the Most Suitable Resorts for Level Easy in the United Level Intermediate / Les 3 Vallees (France) has the Highest Level Intermediate-Rate Correlation in Europe Level Difficult / Les & Vallees (Switzerland) is the Most Suitable Resort for Level Difficult in Europe @ Name of Different @ Name of State # Sum of Keep ● Sum of Kele 225 Cleanliness and Hygiene / Austria and Germany have Noticeably Higher Level of Cleanliness and Hygiene in Europe AR COM 107219 **Drillthrough Page for Resort Name** Country Sum of Total F NameResort ■ nong/Samuson - Storetta Aresa Asia 10112396 CON-COMPANIES Europe |



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iii. Analysis Results

Dashboard 1 – Area and Facility Analysis

Positive Insights	Negative Insights	Comments
1. Europe accounts for the majority of access	1. Asia has the least snow	According to the analysis,
and on-site parking lots AND rate.	reliability. There is a close	competetive landscape, the
Providing convenient solutions for on-site	relationship between the ski	infrastructural development
parking makes a ski-resort area more	resort business and the level	and convenient ameneties
attractive for visitors and travelers.	of snow in the region. Snow	attracts tourism and
Therefore, rate goes up. (Access, On-site	reliability ia the key factor to	significantly improve skiers'
Parking).	make skiing on slopes	experiences which is vital for
2. Eastern Switzerland and Lemanic Region have noticeably more accomodation	possible and to ensure added value in winter tourism. Unfortunately, Asian skiing	developing the ski industry in general.
offering directly at the slopes. Accomodation and lodging options are		

crucial for keeping mountain resort
business going. If we look at the high rates
of resorts in these two regions we can say
that this could be one of the metrics that
make Switzerland one of the most
attractive countries for skiing.
(Accomodation Offering Directly at the
Slopes and Lifts).

3. Europe accounts for the majority of lifts and cable cars AND Rate. Lifts and cable cars are on the the most important skiing facilities. Correlation with high rate numbers demonstrates high level of equipment maintainace. (Lifts and Cable Cars).

industry is prone to gradual decline. (Snow Reliability).

4. Europe accounts for the majority of environmentally friendly ski operation.

Sustainability and eco-friendly production is an integral part of modern business environment. It is a very encouraging fact that such a big continent as Europe delivers environmently friendly outcomes along with high quality resorts standats if we look at the rates.

(Environmentally Friendly Ski Operation).

Dashboard 2 – Customer Service Analysis

Positive Insights	Negative Insights	Comments
Europe, specifically Austria, accounts for the majority of resorts for families and children. Resorts that accommodate small	Africa accounts for the least cleanliness and hygiene. Even though	According to the analysis, mountan resorts attract all kinds
kids and offer enjoyable family experience are normally highly rated. That gives the		preferences and ski experience.
industry exta economic boost. (Families and Children).	comply with sanitation standards mostly affect the	satisfaction level.
 Asia is the most suitable continent for adults. Despite snow reliability issues, Asia is able to provide exeptional 	rating. That may result in making the continent an unpopular ski destination. (Cleanliness and	skiers and provide more personilized options in order to
experience as far as adult ski and	,	ensure best cusomer service.

	,	
snowboard lessons. That helps attract more		
skiers and increase resort rating. (Adult).		
3. Austria and Germany have noticeably		
more beginners. Skiing is not "kind" to		
beginners and beginner-feiendly terrains as		
well as age-appropriate lessons are in high		
demand. Resorts that give beginners better		
opportunities earn higher rates.		
(Beginners).		
,		
4. 4. North America and Europe are the most		
suitable for level difficult skiers.		
Challenging ski destination and terrains		
attract a significant amount of experienced		
skiers. Highly rated resorts offer a big		

number	of	difficult	slopes.	(Level
Difficult).			

Dashboard 3 – Entertainment and Activity Analysis

Positive Insights	Negative Insights	Comments
1. Colorado and British Columbia have	1. Africa accounts for the	Fine dining, restaurant options, a
noticeably more mountain restaurants, ski	least of apres-ski. Since	broad range of after-ski
huts and gastronomy for the continent	apres-ski activities play a	activities, and large km freeride
North America. That means they have the	huge role in ski resort	

	biggest number of ski resorts that offer an	industry a business is at	spaces have a great impact on
	outstanding customer dinning-out and	risk of loosing a significant	the whole ski industry.
	cultural experience on the slopes. That	amount of income if this	
	greatly contributes to economic increase.	part is missing or not well	
	(Mountain Restaurants, Ski Huts,	presented. (Apres-Ski).	
	Gastronomy).		
2.	Snowmass, Vail and Whistler have the		
	highest apres-ski – rate correlation in North		
	America. Apres-ski encompasses different		
	post-ski entertaining and social avtivities.		
	Well-developed apres-ski culture impacts a		
	resort's income considerably. (Apres-Ski).		
3.	Region Tyrol has noaticeably more snow		
	parks. This type of outdoor winter		

activities atracts a lot of visitors. No	
surprise, Tyrol's resorts have a high rate	
and a lot of stars. (Snow Parks).	
4. Ski Alberg has noticeably more km	
4. Ski Alberg has noticeably more km	
freeride for the region Tyrol. Km freeride	
turns out to be another key attribute that	
consumers look for. Numerous freeride	
camps and slopes expand visitors'	
experience, therefore drastically increase	
business' success on the market. (Km	
Freeride).	

iv. Conclusion

According to this analysis, such attributes as ski infrastructure, cusomer-oriented service environment, gastronomy, and post-ski activities influence ski resort development and are positively related to a ski resort's demand and revenue. In the first place, ski resort businesses should concentrate on the key service quality metrics such as variety of slopes, number of lifts and cable cars, and accomodation options to achieve maximum performance. However, it is also essential that businesses understand skiers' behavior and make use of segmentation techniques in order to provide a more appropriate service to specific groups like families with kids, beginners, advanced skiers, etc. It is necessary to provide more deailed information about ski resort' facilities, skill knowledge, and a general introduction for first-time skiers. Special attention should be given to the snow condition. Skiers, especially in off seasons, do not mainly aim at skiing but pay more attention to other factors, such as eating options, apres-ski and other activities. Therefore, ski resort managers should understand skier's food preferences and offer more gastronomic options as well as non-ski activities.