WELCOME TO SMARTINTERNZ







UNLOCKING INSIGHTS INTO THE GLOBAL AIR TRANSPORTATION NETWORK WITH TABLEAU

III B SC MATHEMATICS

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UNDER THE GUIDENCE OF

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CONTENT OF THE THESIS

- ***INTRODUCTION**
- *PROBLEM DEFINITION & DESIGN THINKING
- *RESULT
- *ADVANTAGES & DISADVANTAGES
- *APPLICATIONS
- *****CONCLUTION
- *****FUTURE SCOPE
- *****APPENDIX

*** INTRODUCTION**

1.1 OVERVIEW

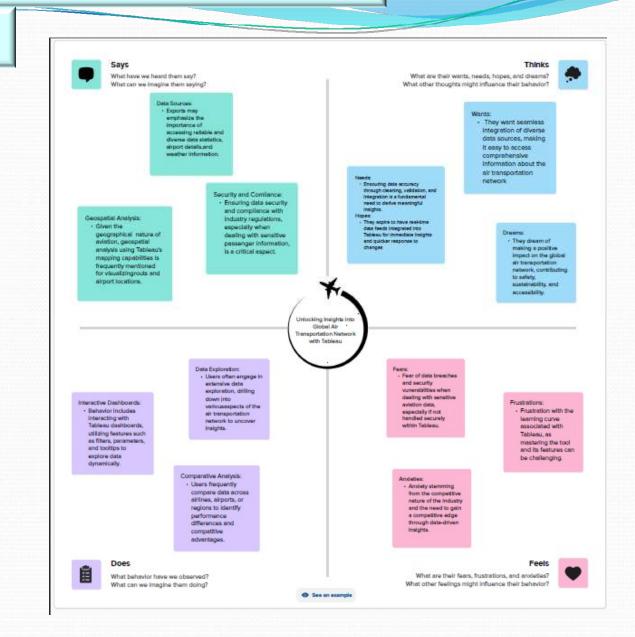
The global air transportation network is a complex and interconnected system that facilitates the moment of people, goods, and information across the world through air travel. It encompasses a vast web of airlines, airports, flight routes, and supporting infrastructure that spans continents and connects even the most remote locations. This Network plays a pivotal role in our increasingly interconnected world, driving economic growth, cultural exchange, and global trade. It enables swift and efficient travel, making the world more acesible than ever before. Understanding and managing this intricate web of routes and connections is essential for governments, aviation industry professionals, and researchers to ensure safe, efficient, and sustainable air travel in a rapidly evolving global landscape.

1.2 PURPOSE

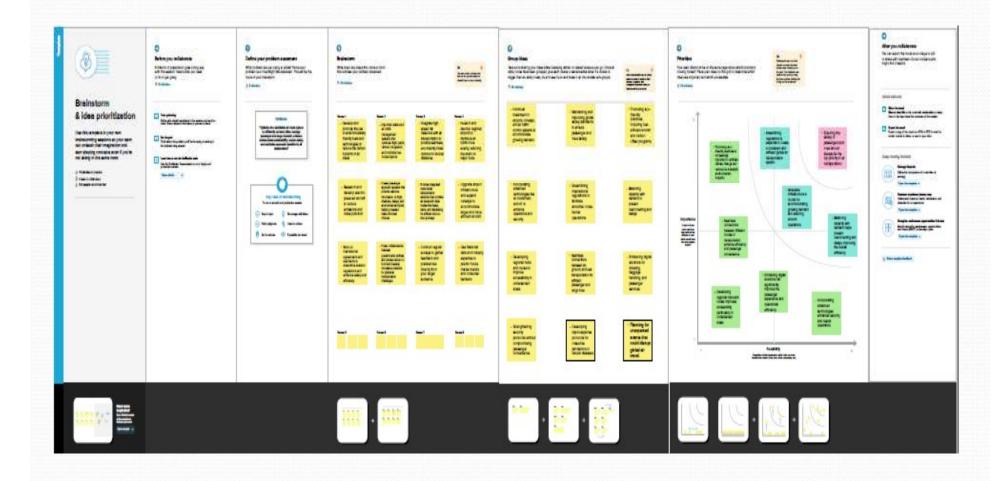
* The primary purpose of the global air transportation network is to facilitate the efficient movement of people, goods, and information across the world, promoting international connectivity and economic growth.

PROBLEM DEFINITION & DESIGN THINKING

2.1 EMPATHY MAP



2.2 IDEATION & BRAINSTORMING MAP



ADVANTAGES & DISADVANTAGES

ADVANTAGES TO GLOBAL AIR TRANSPORTATION NETWORK

- SPEED
- CONNECTIVITY
- TOURISM
- INTERNATIONAL TRADE
- ECONOMIC GROWTH

DISADVANTAGES TO GLOBAL AIR TRANSPORTATION NETWORK

- HIGH COSTS
- ENVIRONMENTAL IMPACT
- CONGESTION
- NOISE POLUTION
- WEATHER-DEPENDENT

Aurangabad

Bakshi Ka Talab

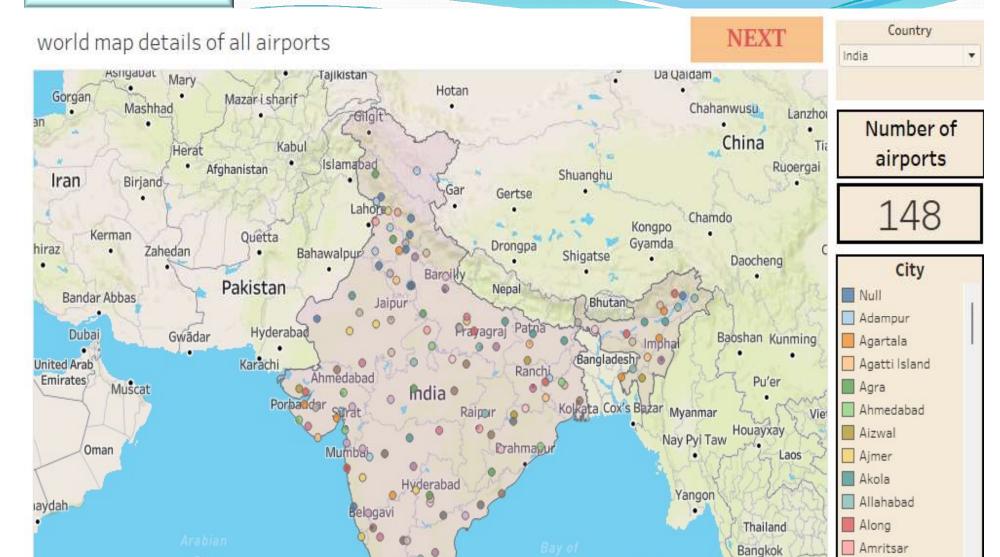
Baghdogra

Bangalore Bareilly

Cambo

Surat Thani

Port Blair



Bengaluru

Maduoi

DASHBOARD 2

PREVIOUS		Airlines	within a Country	NEXT	
Airline ID	Name	Icao	Callsign		
218	Air India Limited	AIC	AIRINDIA		
241	Air Sahara	RSH	SAHARA	<u>H</u>	
569	Air India Express	AXB	EXPRESS INDIA	iii.	
2575	Go Air	GOW	GOAIR	II	
2850	IndiGo Airlines	IGO	IFLY	a a	
2853	Indian Airlines	IAC	INDAIR	III	
3000	Jet Airways	JAI	JET AIRWAYS	iii	
3142	Kingfisher Airlines	KFR	KINGFISHER		
3907	Paramount Airwa	PMW	PARAWAY		
4375	Spicejet	SEJ	SPICEJET		
13105	Air India Regional	\N	ALLIED		
13106	MDLR Airlines	\N	MDLR		
13107	Jagson Airlines	JGN	JAGSON		
16327	Indya Airline Gro	IG1	Indya1		
16362	OCEAN AIR CARGO	IXO	Null		
16901	12 North	N12	12N	=	
19451	Air Costa	\N	Null		
20264	Air Vistara	VTI	Null		
20286	Air Pegasus	PPL	Null		
21270	Air Carnival	\N	Null		







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PREVIOUS Airports at higher altitude within a country NEXT				
Index no	Airport Name	City	ICAO (airpo	
1	Ziro Airport	Zero	VEZO	5,403
2	Yelahanka Air Force Station	Bangalore	VOYK	3,045
3	Vishakhapatnam Airport	Vishakhapatnam	VEVZ	15

Airports at higher altitude within a world

Airport Name	City	ICAO (airports.csv)	
Daocheng Yading Airport	Daocheng	ZUDC	14,472
Qamdo Bangda Airport	Bangda	ZUBD	14,219
Kangding Airport	Kangding	ZUKD	14,042
Ngari Gunsa Airport	Shiquanhe	ZUAL	14,022
El Alto International Airport	La Paz	SLLP	13,355
Capitan Nicolas Rojas Airport	Potosi	SLPO	12,913

Country

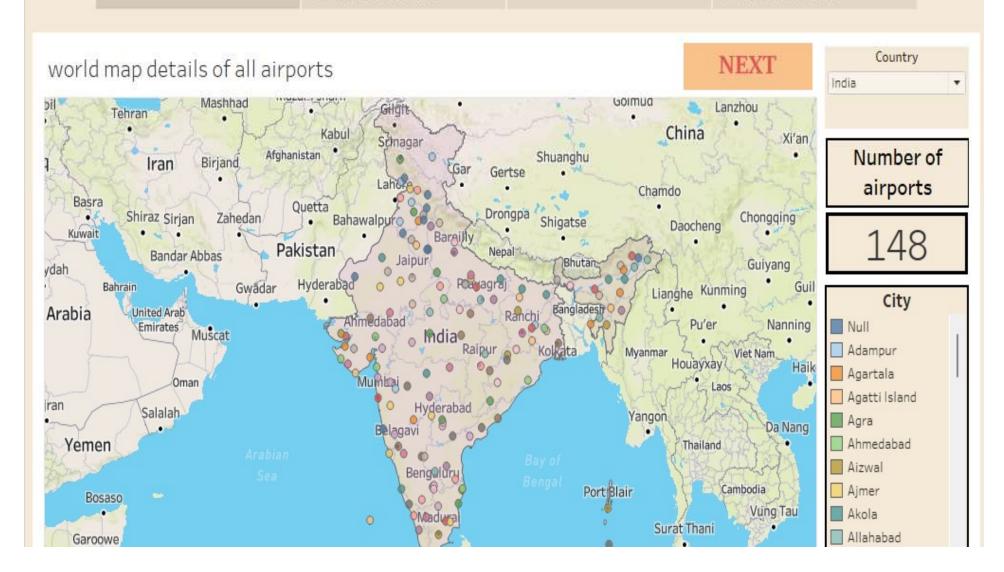
DASHBOARD 4



World Map Showing Countries with details of Airports.

Table Showing Airports which are at Highest Altitude in the world and within the Country. Table Showing List of All Airlines within the Country.

Bar Graphs showing Countries with Max No. of Airports & No. of Flights from Airports.





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Kangding Airport	Kangding	ZUKD	14,042



World Map Showing Countries with details of Airports.

Air India Regional

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13105

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ALLIED



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MPPLICATIONS

- The Global Air Transportation Network enables timesensitive business travel, facilitating face-to-face meetings, negotiations, and conferences that are vital for international business operations, dial-making, and design making.
- * Air travel is commonly used to transport sports teams to various locations for competitions, tournaments, and events. This efficient mode of transportation allows athletes to participate in a wide range of sporting events around the world and fosters international sportsmanship.

CONCLUSION

- * The Global Air Transportation Network plays a multifaceted and indispensable role in our interconnected world.
- It supports economic growth, facilitates global trade, and serves as a lifeline for emergency responses and humanitarian efforts, while also promoting cultural exchange and international collaboration through travel and tourism.

FUTURE SCOPE

The future scope of the Global Air Transportation
Network includes advancements in sustainable
aviation technology, such as electric and hybrid
aircraft, to reduce environmental impact and address
the growing demand for air travel while minimizing
carbon emissions.

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