INTRODUCTION

Overview

This Global Air Transportation Network dataset is a comprehensive collection of information on airports, airlines and their routes. It contains information such as names, cities, countries, codes (IATA and ICAO) longitudes, latitudes and altitudes of airports across the world with detailed time zone and daylight-saving time data. Additionally, this includes information about airlines including their IDs, name aliases, IATA and ICAO codes, callsigns country of origin and active/inactive status. Similarly, it also covers route details such as airline sources to destination airports along with essential details like codeshare stakeholder if any stops required during this journey along with the type of aircraft being used for that journey. This dataset has been compiled through meticulous labor by researchers all over the world to give you a comprehensive detail into air transportation networks from around the globe

Purpose

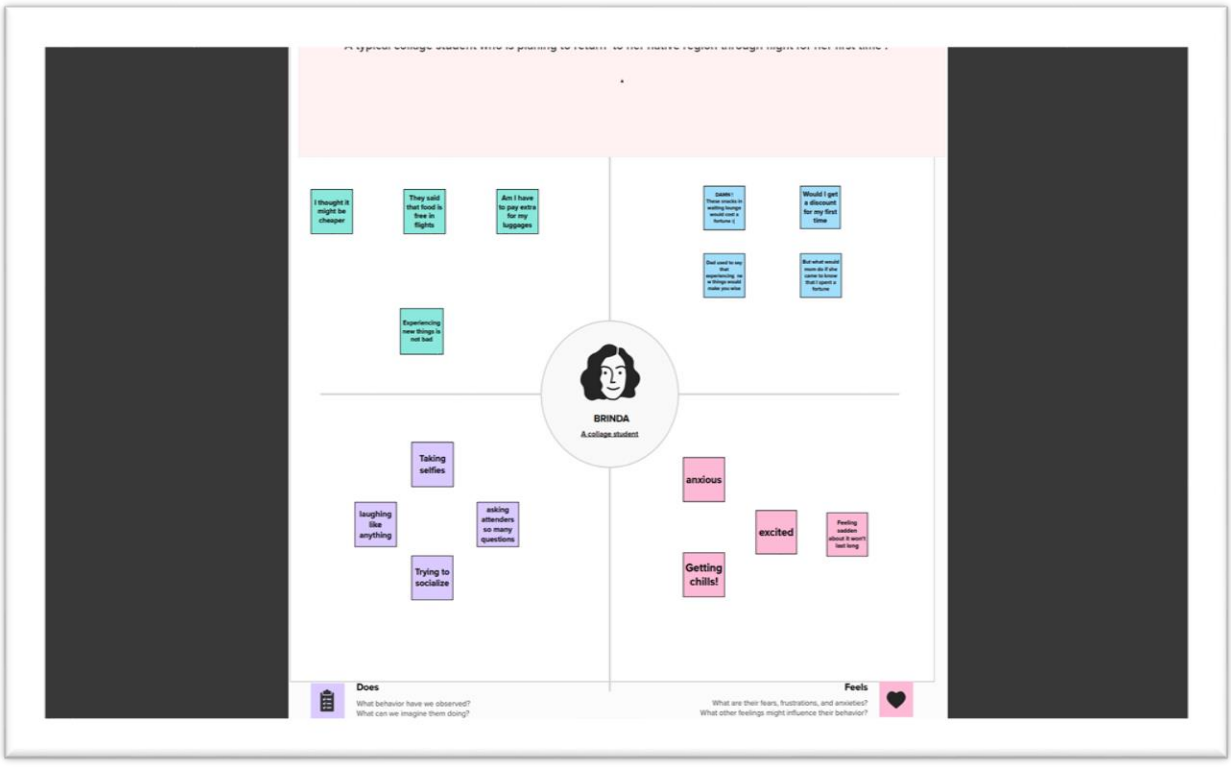
The demand for multimodal transport is increasing because of the diversification of logistics strategies of companies, and the transportation demand for high-tech products, Data visualization helps to tell stories by curating data into a form easier to understand, highlighting the trends and outliers.

The interpretation of mass data amounts much value to government in decision making

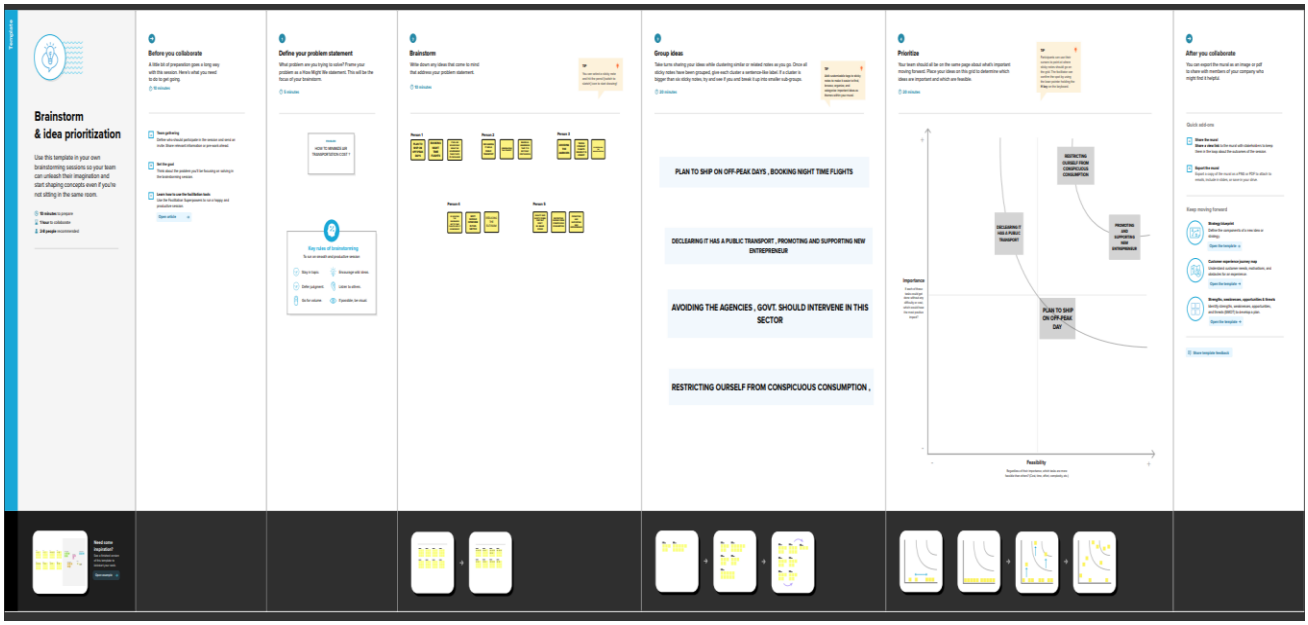
Understanding of data by people provides room for individual growth in their respective fields

Problem Definition & Design Thinking

Empathy map



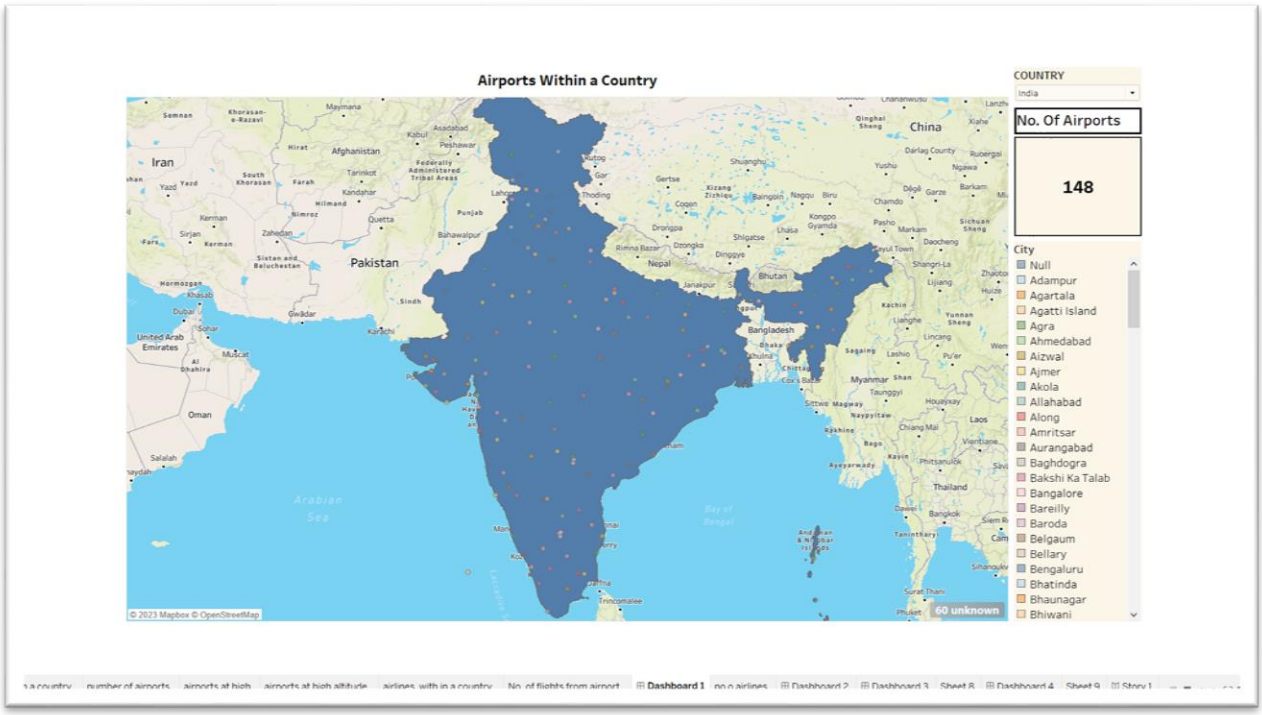
Ideation & Brainstorming Map



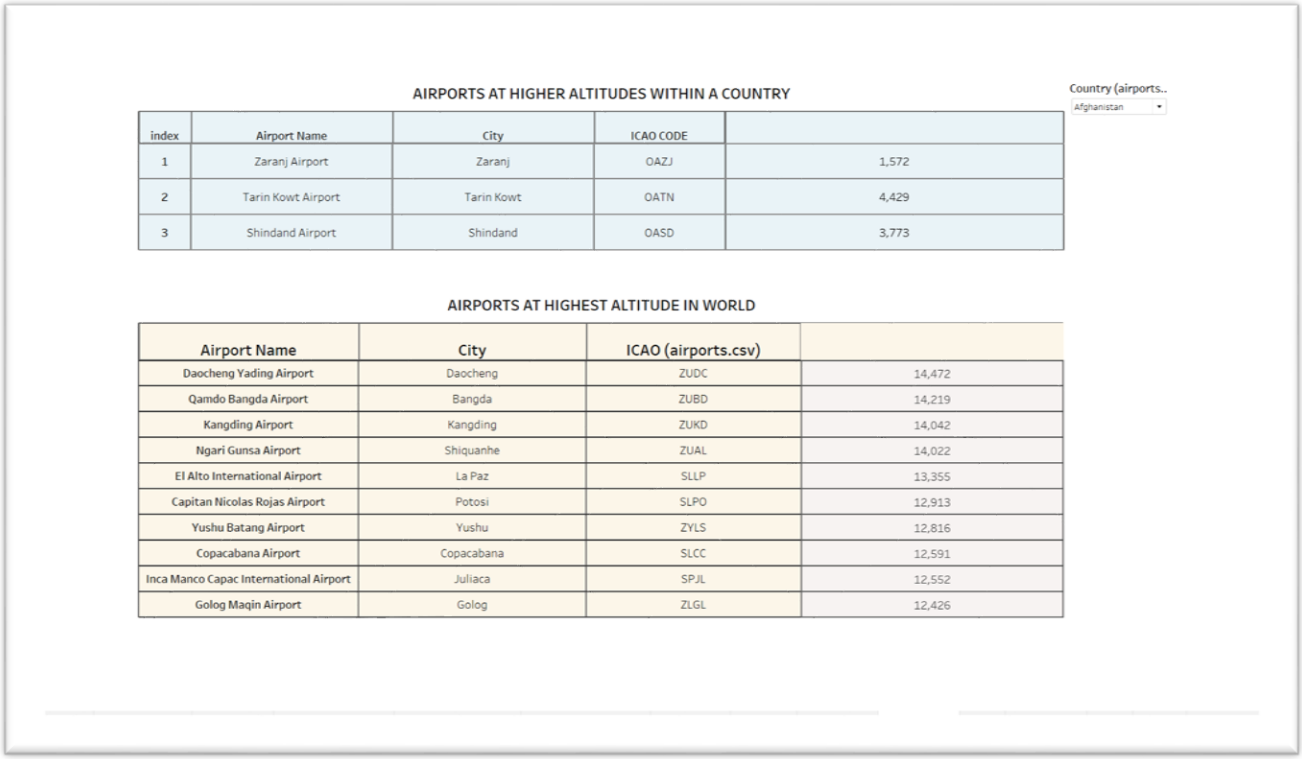
RESULT

Final findings (Output) of the project along with screenshots

DASHBOARD 1



DASHBOARD 2



AIRPORTS AT HIGHER ALTITUDES WITHIN A COUNTRY

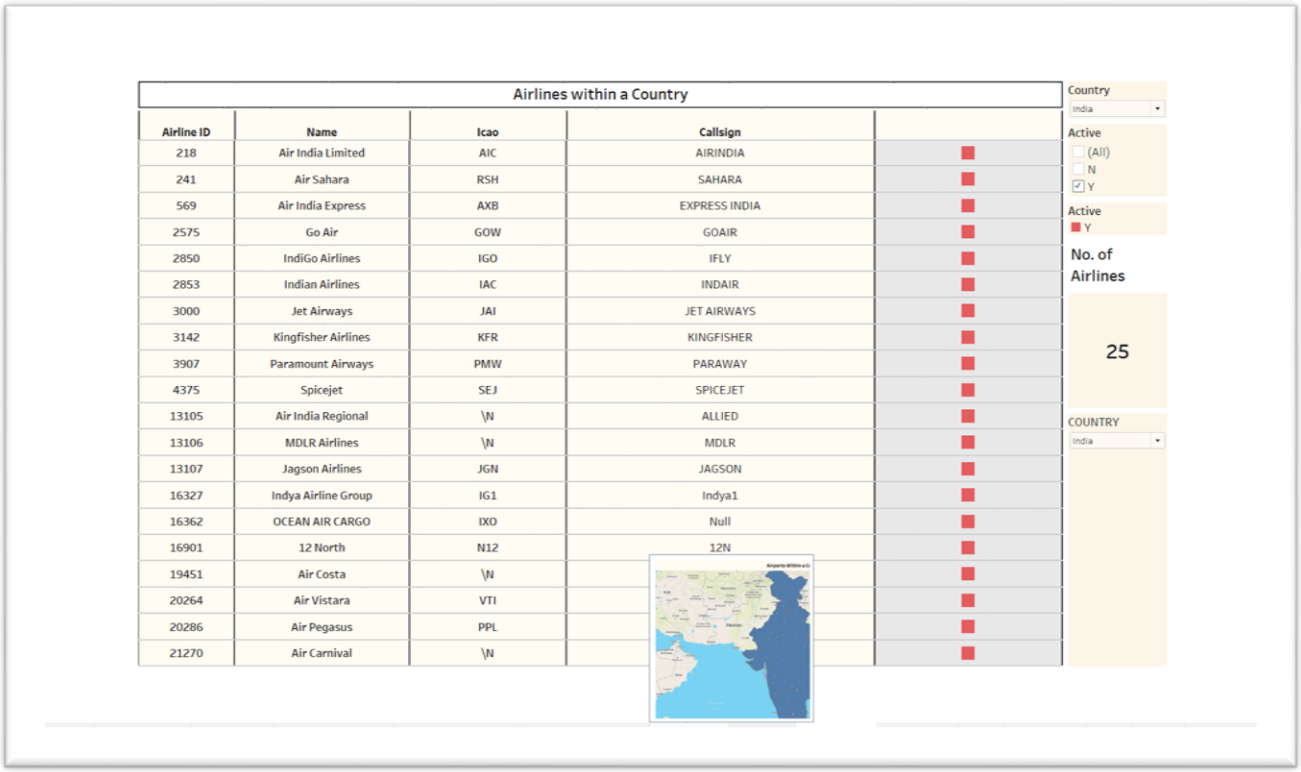
Country (airports..
Afghanistan

index	Airport Name	City	ICAO CODE	
1	Zaranj Airport	Zaranj	OAZJ	1,572
2	Tarin Kowt Airport	Tarin Kowt	OATN	4,429
3	Shindand Airport	Shindand	OASD	3,773

AIRPORTS AT HIGHEST ALTITUDE IN 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
Yushu Batang Airport	Yushu	ZYLS	12,816
Copacabana Airport	Copacabana	SLCC	12,591
Inca Manco Capac International Airport	Juliaca	SPJL	12,552
Golog Maqin Airport	Golog	ZLGL	12,426

DASHBOARD 3



Airlines within a Country

Airline ID	Name	Icao	Callsign	
218	Air India Limited	AIC	AIRINDIA	
241	Air Sahara	RSH	SAHARA	
569	Air India Express	AXB	EXPRESS INDIA	
2575	Go Air	GOW	GOAIR	
2850	IndiGo Airlines	IGO	IFLY	
2853	Indian Airlines	IAC	INDAIR	
3000	Jet Airways	JAI	JET AIRWAYS	
3142	Kingfisher Airlines	KFR	KINGFISHER	
3907	Paramount Airways	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 Group	IG1	Indya1	
16362	OCEAN AIR CARGO	IXO	Null	
16901	12 North	N12	12N	
19451	Air Costa	\N		
20264	Air Vistara	VTI		
20286	Air Pegasus	PPL		
21270	Air Carnival	\N		

Country
India

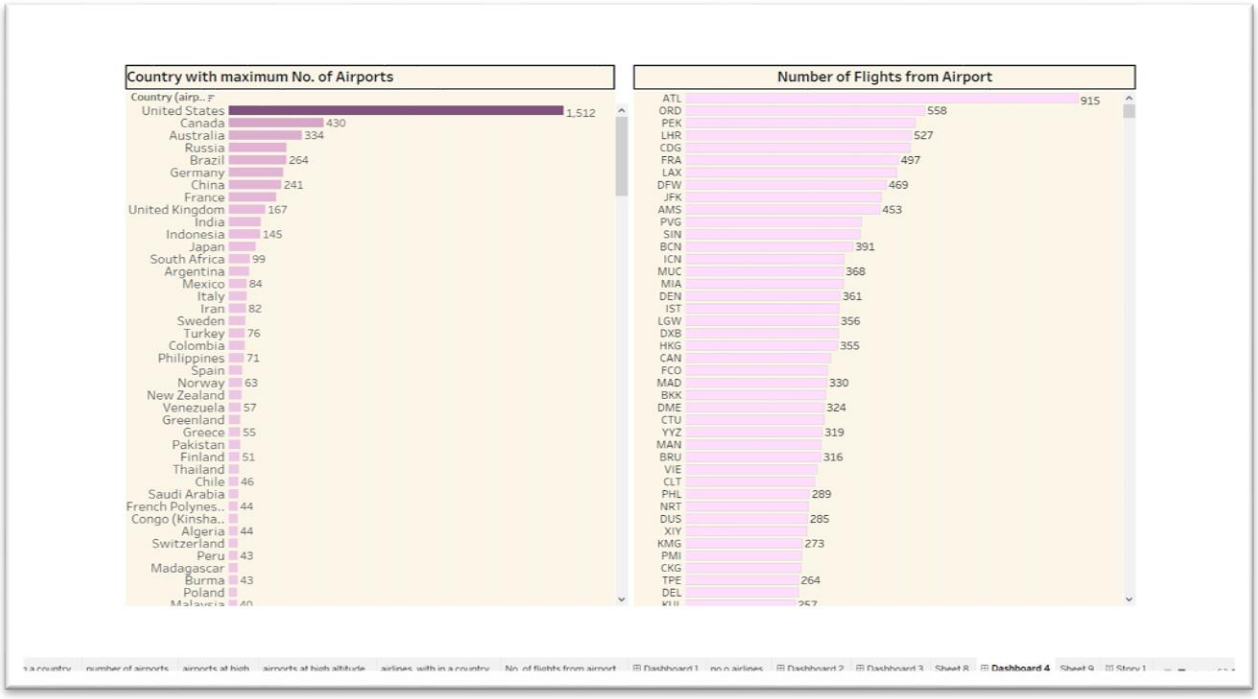
Active
(All)
N
Y

Active
Y

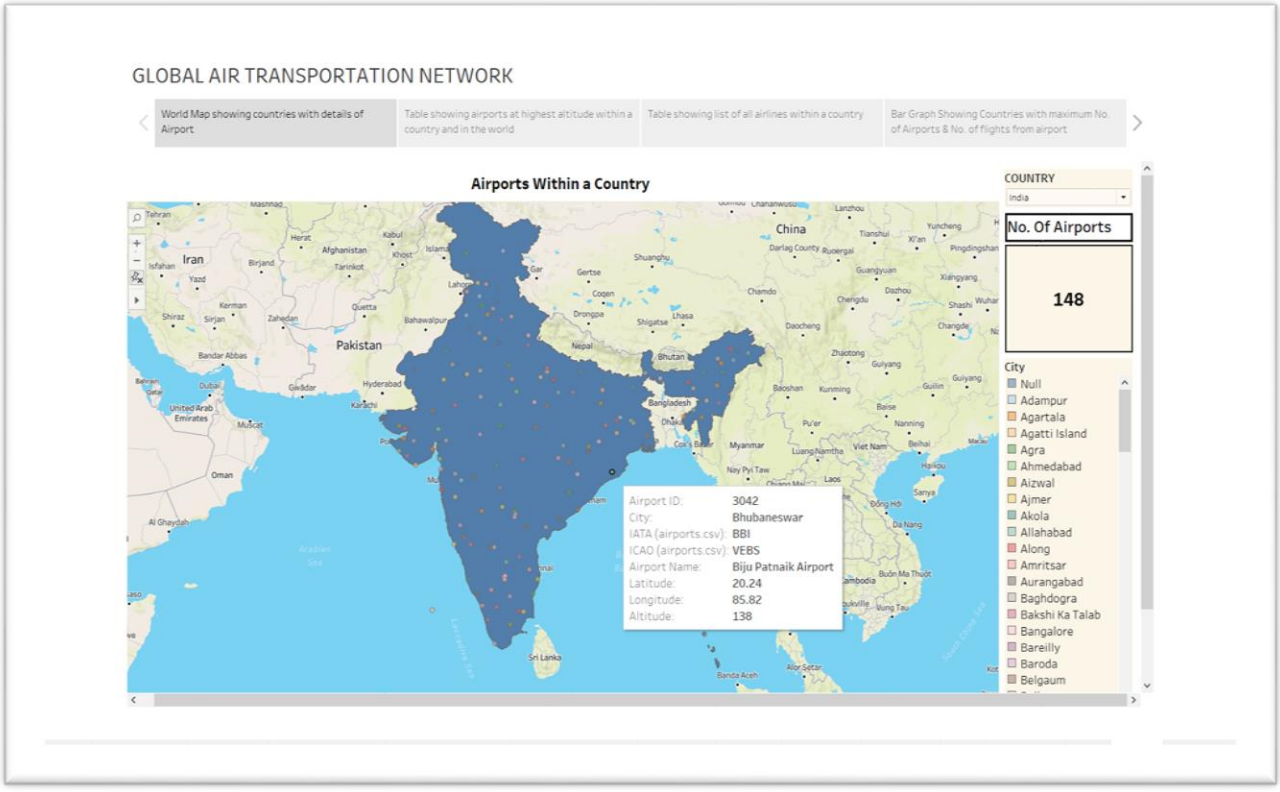
No. of Airlines
25

COUNTRY
India

DASHBOARD 4

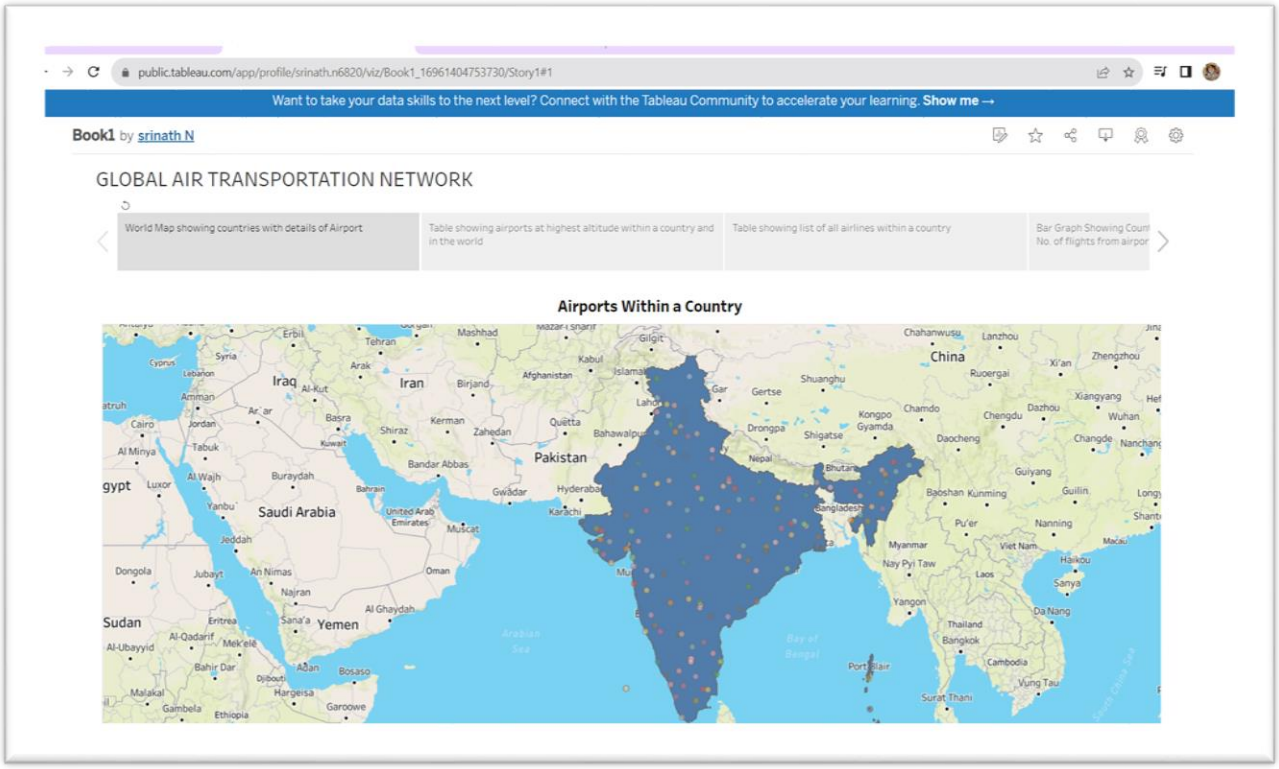


STORY VISUALIZATION



VISUALIZATION IN WEB VIEW

GHT



ADVENTAGES AND DISADVENTAGES

- ✓ **This specific field of data analysation helps common people to understand the airways more accurately.**
- ✓ **It helps government to implement policies by understanding the regions terrestrials.**
- ✓ **By understanding the visualization one can easily understand the importance of a specific region in a country because the more the airports it has the more important it is to the country.**
- ✓ **In transportation of goods, this analysis provides an idea about connectivity.**
- ✓ **Interpretation of data in this form is easily understandable even to the ill-educated**

- × **This analysis is meant to provide only the basic information about the airports, but it does not provide a business idea, as we are provided with only minimal information.**
- × **This analysis provides a good understanding to everyone but that doesn't make it will be useful to them because the airways are economically costly.**
- × **An invention is useful only if it satisfies the basic needs of the society.**

APPLICATIONS

- ★ **This data could be useful for government official matters.**
- ★ **It will be useful for the general people to get a hold about air transportation.**
- ★ **This visualization helps kids to understand the basic structure of air transportation**
- ★ **This could be very useful in schools to teach students about this wide range of transportation network, which could attract their future vision**
- ⋆ **To compare the multiple airframes and on-demand methods with the aim of establishing a cost of operation.**
- ★ **To compare the air transportation facilities of different countries.**
- ★ **To ensure the top priority places in the account of a disaster.**
- ⋆ **To compare the strengths and weaknesses being experienced by various corporate airframes to determine the state of the market.**

Conclusion

At first, I started as like the guy in the video said and then he started to omit some parts like calculation field and some worksheets but that is understandable from his point of view, because we started getting how to access the tableau by our own with some support from the tutors, faculties and you tube . It was so good to learn a new thing.

Especially while preparing the dashboard and story it felt in such a way like I have become an analyst myself in these few days, but I know I have a long journey ahead

It gave us a basic idea about this field and what we need in order to get into this field.

It was good

FUTURE SCOPE

With a some more data regarding prices and air traffic we might be able to give a much more detailed view to the public which will be more useful to them at peak seasons.