

Data Visualization Project

Topic: Flight Delays and Cancellation

The data which has been used in this data visualization project comes from Kaggle Datasets, US domestic flights operated by large air carriers in 2015. This project gives the insights for the cancellation by airlines and in which state by reason.

The Final Dashboard Link:

While creating the insights for flight cancellation the month filter is used.

Story-Flight Cancellation link:

<https://public.tableau.com/profile/pranay1994#!/vizhome/story-flightcancelled/flightcancellation-story>

Dashboard for flight cancellation:

<https://public.tableau.com/profile/pranay1994#!/vizhome/Dashboard-flightcancelled/flightcanceledbyairlinesreasoninwhichstates>

Insight 1: No of flights Cancelled by Months

Link:

<https://public.tableau.com/profile/pranay1994#!/vizhome/flightcancelledbymonth/flightcancelbymonth>

Summary:

For this insight for finding the no of flights cancelled by month, line graph is chosen. The reason for selecting the line graph is to show the trend over time. From the visualization it can be seen that for the month of February the total 1058 flights have cancelled which is highest for the year. And for the month of September only 108 flights have been cancelled i.e. is lowest for the year.

Design:

A line graph is chosen for this visualization to show a trend over time. Blue color is selected which is visible over other light colors,

Insight 2: No of Flight cancellation by state

Link:

https://public.tableau.com/profile/pranay1994#!/vizhome/Cancellationbystate_15917025461700/cancellationbystate

Summary:

From the map it is clear that most no of flights cancelled in the state of Texas and Illinois which is 661 and 537. And very few flights have been cancelled from the state of West Virginia, Wyoming, and Idaho with 1, 4 and 4 flight cancellation for the year 2015.

Design:

For this insight, a map is selected because geographical data is given such as latitude, longitude, country, state, city which cannot be visualized properly in other graphs. The color blue is chosen, the darker the shade in the map represent the higher no of flights cancelled.

Insight 3: No of flights cancelled by airlines**Link:**

<https://public.tableau.com/profile/pranay1994#!/vizhome/flightcancelledbyairlines/Flightscanceledbyairlines>

Summary:

The no of flights cancelled by airline is represented by bar graph. South west airlines have the highest no of flights cancellation 818 followed by Atlantic Southeast airline and American Eagle Airlines with 800 and 723 cancellation. Hawaiian Airlines and Alaska Airline with the lowest no of cancellation by airlines 8 and 22 in the year 2015.

Design:

For this visualization, the bar graph is selected with blue color which is easily visible and sorted in Descending order.

Insight 4: Flight cancelled by Airport**Link:**

<https://public.tableau.com/profile/pranay1994#!/vizhome/flightcancelledbyairport/flightscancelledbyAirport>

Summary:

The no of flights cancelled by airport is represented by bar graph. Chicago O'Hare International Airport and Dallas/Fort Worth International Airport have the highest no of flights cancelled by any airport 405 and 311, followed by LaGuardia Airport (Marine Air Terminal) with 221. Abilene Regional Airport with the lowest no of cancellation by airport is 1 in the year 2015.

Design:

For this visualization, the bar graph is selected with blue color which is easily visible and sorted in Descending order.