



# Airlines - The Sky Is Falling?



The recent Media coverages chants "**Sky is falling**" for Airlines, And reports raised concerns on Air Travel Safety.

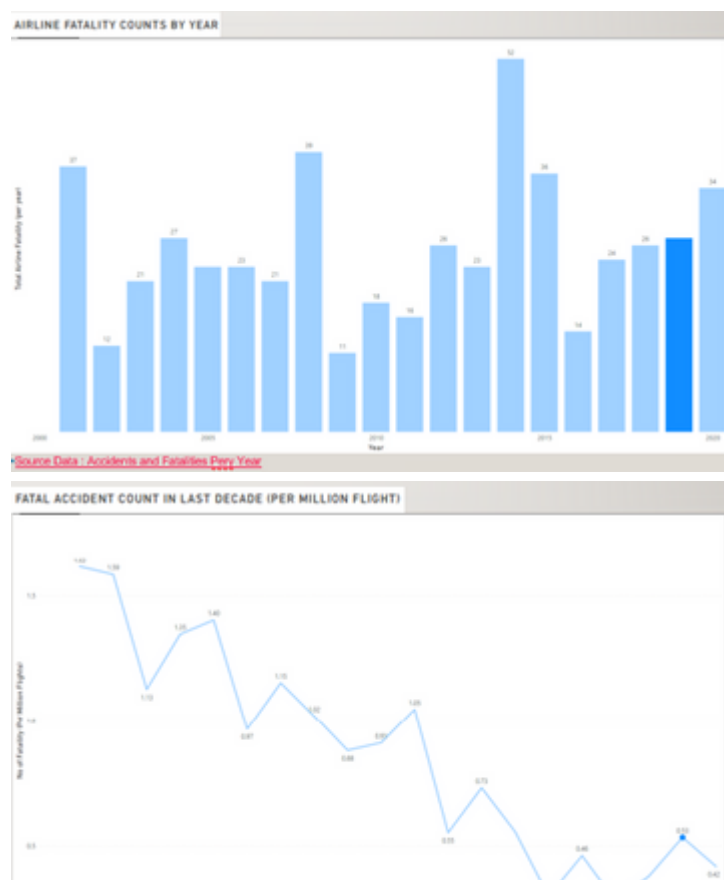
Is the shown story seems similar to our childhood story in which all animals are following each other and start running out from the forest by saying Sky is falling and the world is going to end?

Do media concerns on Airline safety is correct?

Let's consider the media claims as hypotheses and will do deep dive into the publicly available air fatality data and try to conclude on it.

## Media Claim Vs Data Says:

Airline Fatality counts in Last Decades should go down, instead of this, it looks constant.



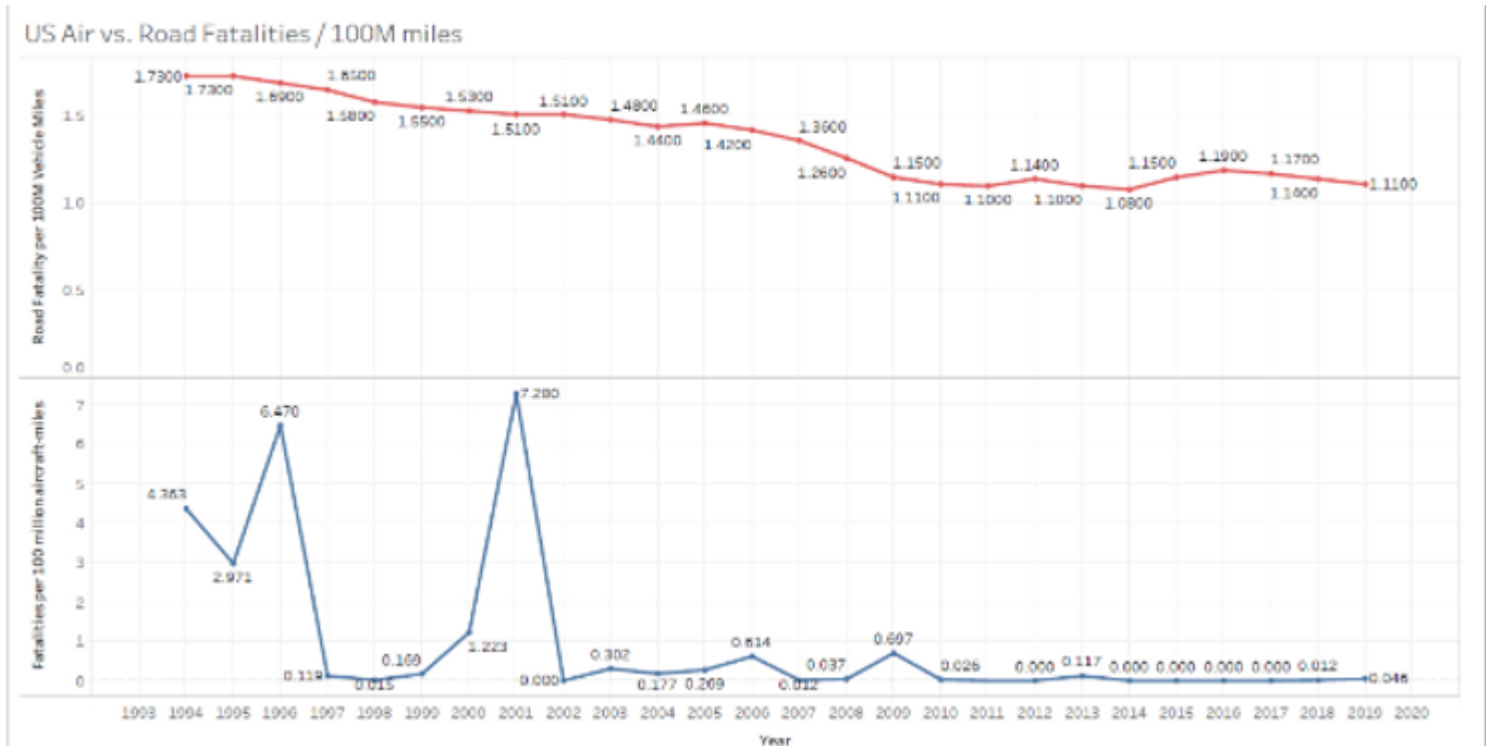
1. The Media was showing the "Airline Fatality counts by Year" chart, which shows the fatality counts in 2000 was 37 and we have similar fatality counts in 2020 too. When I dug more on the same data source and created another graph "Fatal Accident counts in last decades (per million scheduled flights)" which shows, how airline fatality was reduced during the last two decades. this chart tells, In 2000 we have a 1.62 fatality count per million flights and in 2020 it reduced to 0.42 fatality per million scheduled flights.
2. This shows the first chart was not projecting the real picture. in the past two decades, air traffic was increased many folds and it hasn't considered the number of flights scheduled as an important factor.

Do Road Travel is safer than Air Travel



ground fatality VS 0.04 Air fatality per 100 Million travel miles.

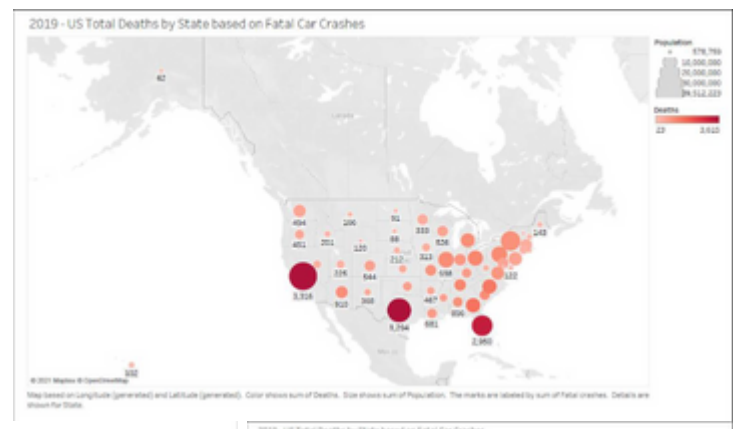
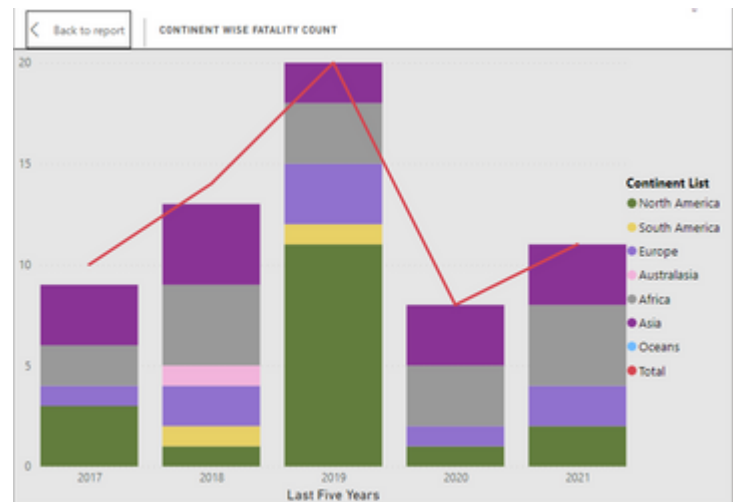
Below Charts are showing the clear differences in a fatality at Air & Road. in 2020 we have approx. 1.11

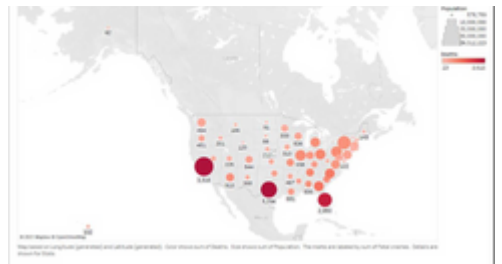
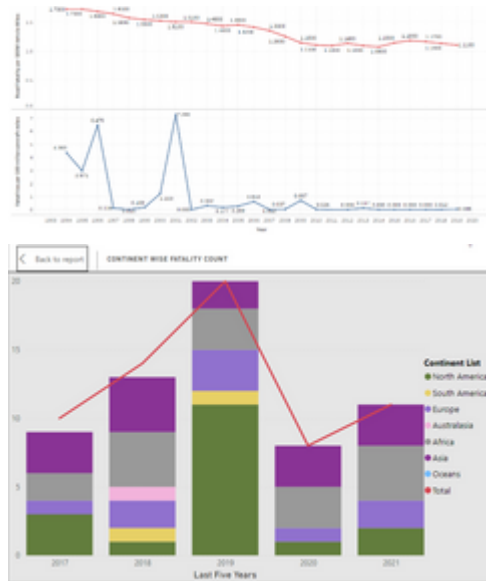


Referring to the second set of charts in which the first chart "Continent wise Air Fatality counts" shows the total count of Air Fatality in all continents during last 5 years.

And the second chart shows the count of car fatal crashes in the year 2019 in the USA. Here definitely seems Air travel is safer as compared to car travel.

**Conclusion:** Air travel has become increasingly safer as compared to ground modes of transport. during the being last two decades, several safety measures are adopted by the airline industry and it results in decreasing the air fatality rates over the decades and not impacted by the exponential increase in air travel schedule & air travel miles.





## References :

- Used Datasets list in Dashboard:

- Accidents and fatalities per year

[https://docs.google.com/spreadsheets/d/1SDp7p1y6m7N5xD5\\_fpOkYOrJvd68V7iy6etXy2cetb8/edit#gid=1448957446](https://docs.google.com/spreadsheets/d/1SDp7p1y6m7N5xD5_fpOkYOrJvd68V7iy6etXy2cetb8/edit#gid=1448957446)

- Summary 2017-21

[https://docs.google.com/spreadsheets/d/1SDp7p1y6m7N5xD5\\_fpOkYOrJvd68V7iy6etXy2cetb8/edit#gid=1733053069](https://docs.google.com/spreadsheets/d/1SDp7p1y6m7N5xD5_fpOkYOrJvd68V7iy6etXy2cetb8/edit#gid=1733053069)

- Vehical\_accident\_2019.CSV

- supplemental dataset

<https://www.nhtsa.gov/data>