5.3 Project Task 5: Video Presentation

Soukhna Wade

Bellevue University

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<https://github.com/souwadeGit/DSC640_SWade>

Today, we will be reviewing airlines in this presentation which is all about airplane safety. We will be reviewing the safest and dangerous airlines. As you can see in the graph below, China Airlines, Malaysia Airlines, Japan Airlines, American Airlines, and Air India have the top 5 fatality rates. China Airlines has the most fatalities, so it is not recommended to go there or any of the airlines shown in the graph. China Airlines had 535 fatalities between 1985-1999 and 225 fatalities between 2000-2014. Although China Airlines' number of fatalities is not very consistent from 1985 to 2014, it has the highest number of fatalities than any other Airline on the list. China Airlines' fatality number can be explained by many factors such as weather, technical problems, security issues, lack of training. For instance, China Airlines was also criticized for insufficient training. The disappearance of Flight MH370 of Malaysian Airlines on 8 March 2014 seems to be related to the weather issues.

The pie chart shows Aeroflot has the most fatal accidents, with Delta/Northwest behind it. The graph below the pie chart shows the available seats in airlines per week, United Airlines has the most. The TreeMap at the bottom gives a clearer vision showing the dangerous and safer side of airlines. Reading through the charts, it is noticeable that TAP Portugal Airlines has the lowest fatality and incident rate, making it the safest of all.

The airlines in the list with high total incident numbers also have higher total fatal accident numbers between 1985-1999. For example, Aeroflot had 88 total incidents and 15 fatal accidents between 1985-2014 that might be caused hard landing of The safest airline is TAP-Air Portugal, TAP has one of the best safety records of any airline in the list with only one incidence between 1985 to 2014; follows by Virgin Atlantic, Hawaiian Airlines, Finnair. The safest airline is TAP-Air Portugal. TAP has one of the best safety records of any airline in the list with zero incidences and zeroes fatal accident between 1985 to 2014; follows by Virgin Atlantic, Hawaiian Airlines, Finnair. This Portuguese flag carrier TAP has dropped three places, from fourth to the seventh position, in the world airline safety ranking.

However, the Portuguese airline is still among the 10 safest airlines in the world, according to a report from the Jet Airliner Crash Data Evaluation Center (JACDEC).

TAP has been a member of the Star Alliance since 2005 and operates on average 2,500 flights a week to 90 destinations in 34 countries worldwide. The company has a fleet of 100 airplanes, all of which manufactured by Airbus except for 22 made by Embraer and ATR, operating on behalf of the regional airline TAP Express.

The Portuguese airline is still among the 10 safest airlines in the world, according to a report from Jet Airliner Crash Data Evaluation Center.

Air New Zealand ranked second, and Cathay Pacific from Hong Kong was in the third position. British airways listed 10th in the ranking, moving up 10 places on 2011’s report by JACDEC.

TAP was pushed down the list by two airline companies in the United Arab Emirates, Emirates and Etihad Airways, and one from Taiwan, Eva Air.

In conclusion, TAP continues to be one of the few airline companies that have not recorded a plane crash in over 30 years, according to the JACDEC report. China Airlines is not recommended due to the number of untrained pilots and weather encounters leading to more fatalities.

**References**

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