Wireframe Document

Data Visualization of Bird Strikes between 2000-2011

Revision Number - 1.2
Last Date of Revision - 22/11/2022
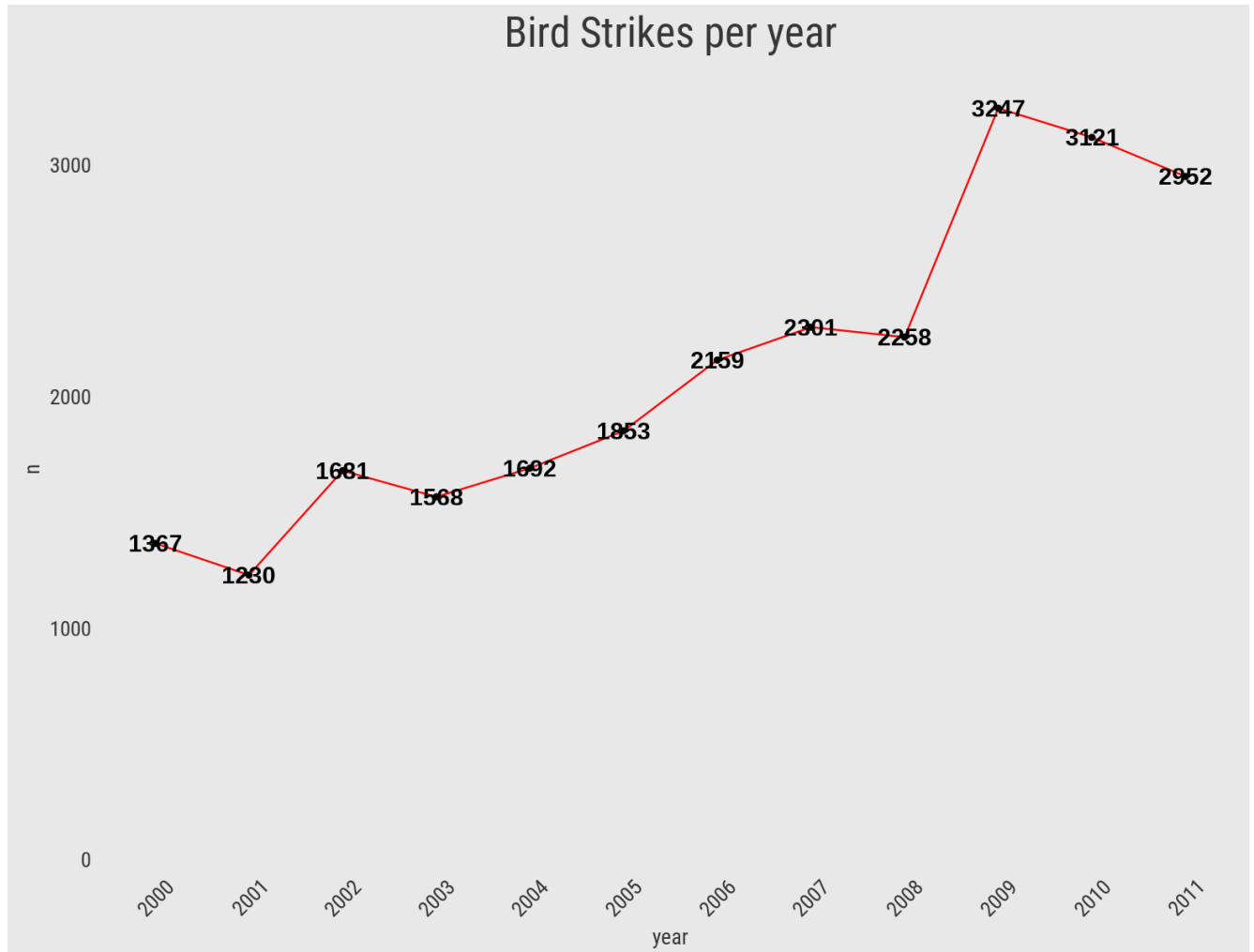
Deepali

Document Control

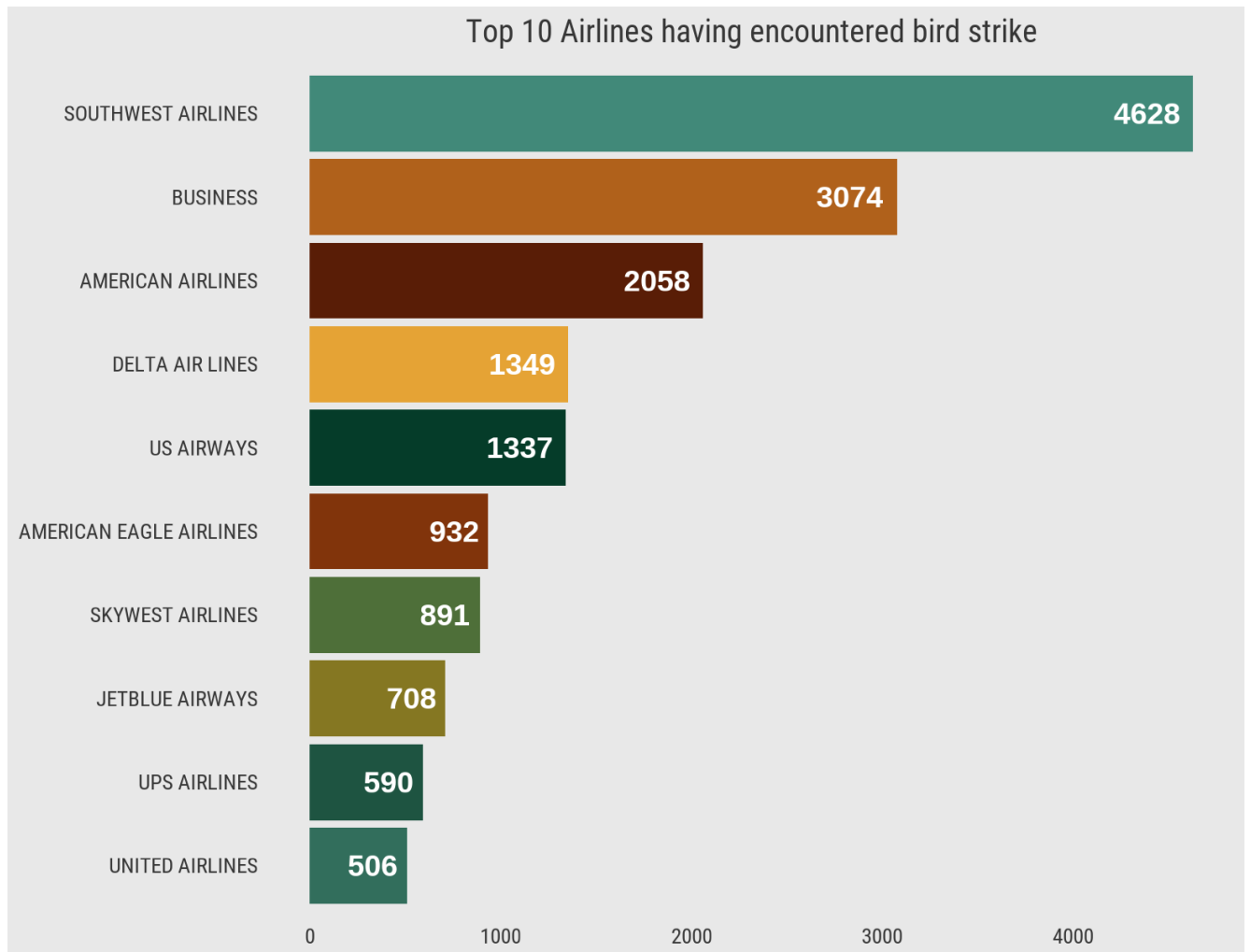| Date	Version	Description	Author
04/11/2022	1.0	Introduction, Problem Statement	Deepali
20/11/2022	1.1	Dataset Information, Architecture Description	Deepali
22/11/2022	1.2	Final Revision	Deepali

We Performed Exploratory Data Analysis on Jupyter Notebook and then created a Power BI Desktop Dashboard.

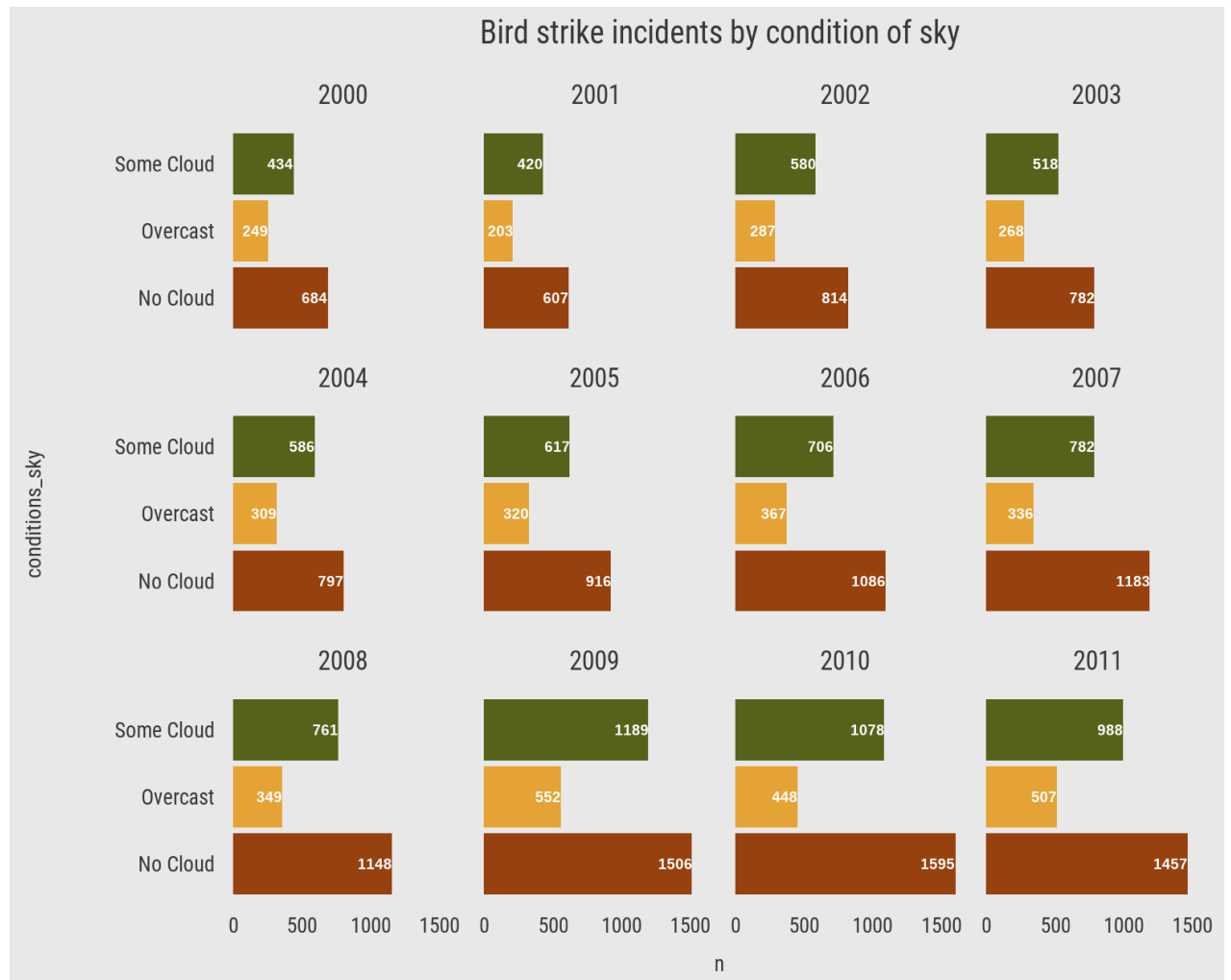**1. Total number of Bird Strikes Incidents between 2000-2011**

- **We can see that the incidents have an upward trend.**

- **2009 has the highest no. of bird strike incidents**

2 Top 10 Airlines having highest number of bird count encounters

Top 10 Airlines having encountered bird strike

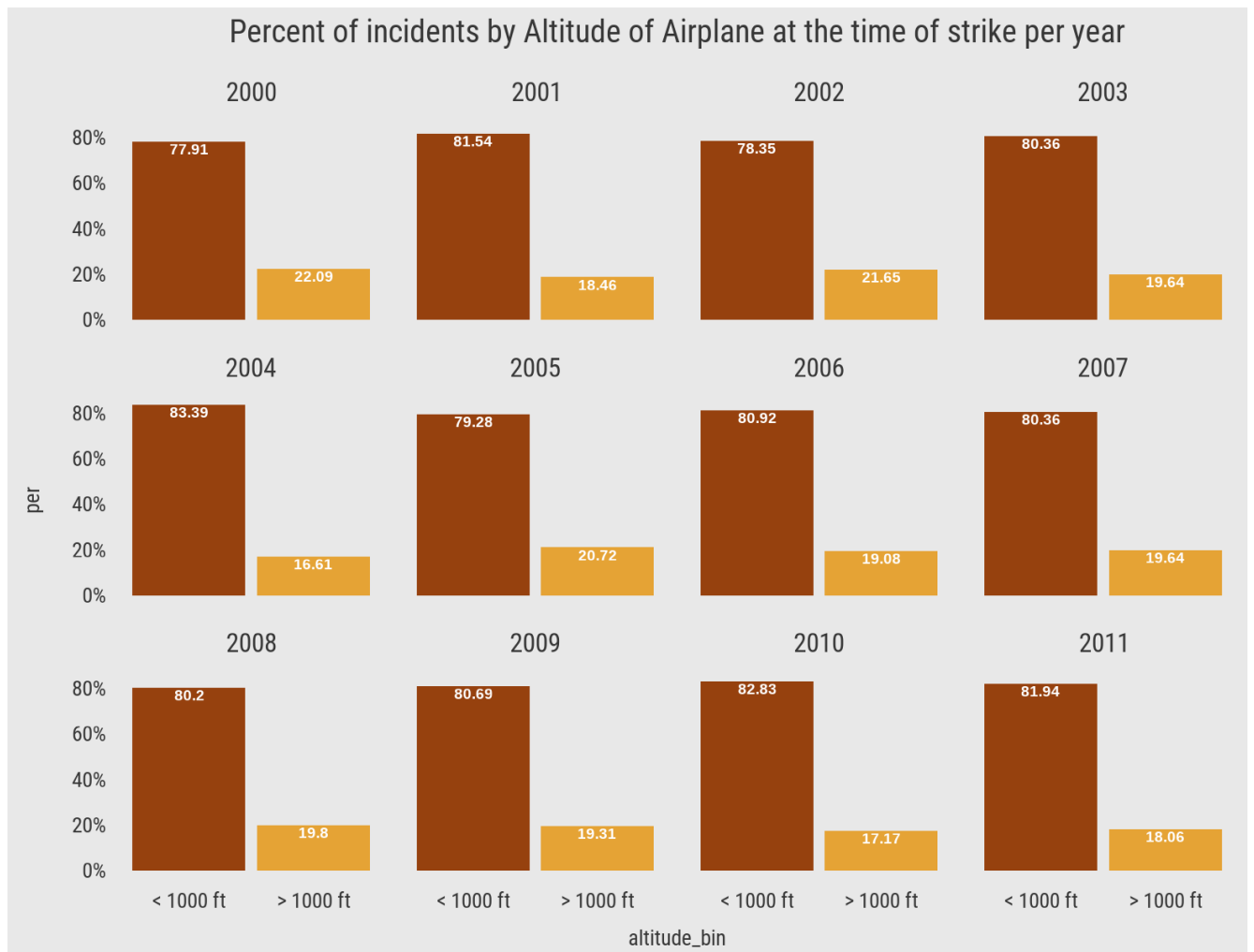| Airline	Count
SOUTHWEST AIRLINES	4628
BUSINESS	3074
AMERICAN AIRLINES	2058
DELTA AIR LINES	1349
US AIRWAYS	1337
AMERICAN EAGLE AIRLINES	932
SKYWEST AIRLINES	891
JETBLUE AIRWAYS	708
UPS AIRLINES	590
UNITED AIRLINES	506

- **Southwest airlines followed by business and American Airlines have high number of bird strike incidents**.

3. When do most bird strike occur?

Bird strike incidents by condition of sky

- **Most of the bird strike incidents happened during 'No Cloud' Sky conditions.**

4. Altitude of Airplanes

Percent of incidents by Altitude of Airplane at the time of strike per year

Year	< 1000 ft	> 1000 ft
2000	77.91	22.09
2001	81.54	18.46
2002	78.35	21.65
2003	80.36	19.64
2004	83.39	16.61
2005	79.28	20.72
2006	80.92	19.08
2007	80.36	19.64
2008	80.2	19.8
2009	80.69	19.31
2010	82.83	17.17
2011	81.94	18.06

- **Nearly 80 percent of bird strike incidents happened when the altitude of the airplane was <1000 ft**.