DATA VISUALIZATION OF BIRD STRIKES

By: Rohan Palkar

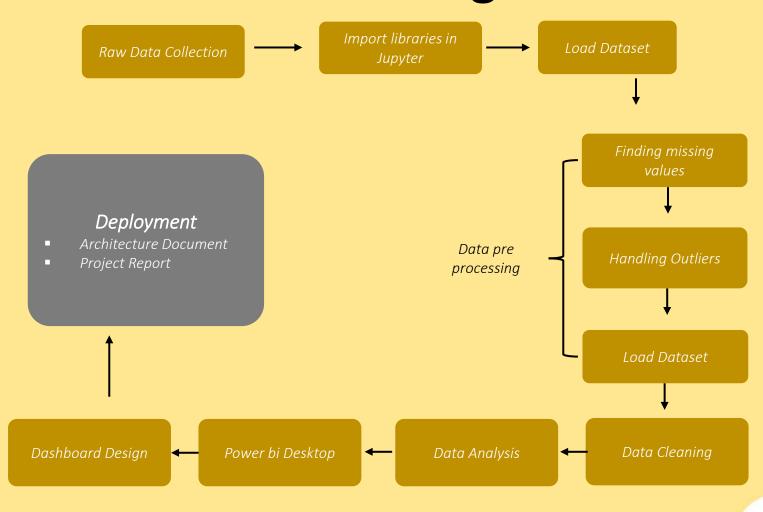
Problem statement

Transport and communication are in the crucial domain in the field of analytics. Environmental impacts and safety are, nowadays, two major concerns of the scientific community with respect to transport scenarios and to the ever-growing urban areas. These issues gain more importance due to the increasing amount of vehicles and people. A bird strike is strictly defined as a collision between a bird and an aircraft which is in flight or on a take-off or landing roll. Bird Strike is common and can be a significant threat to aircraft safety. To have a closer look the following document visually depicts the data collected on Bird Strikes by FAA between 2000-2011.

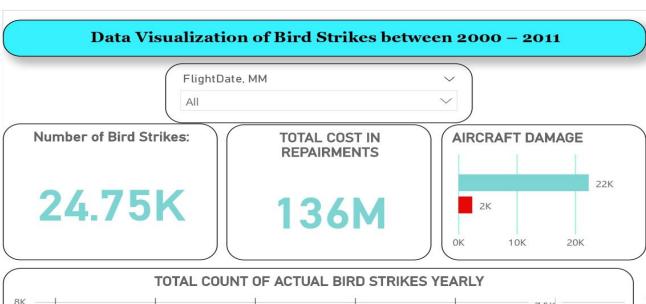
Collection OF Dataset

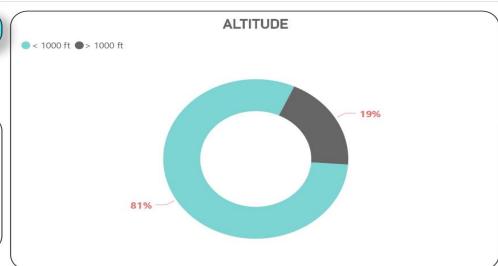
This is a Sales related dataset that contains Information like Phase of flight, Precipitation, Cost: Total, Pilot warned of birds or wildlife, Number of people injured, Feet above ground, Flight Date, Impact to flight etc.

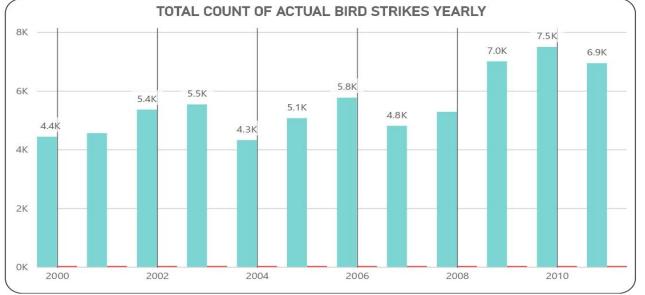
Architecture Design

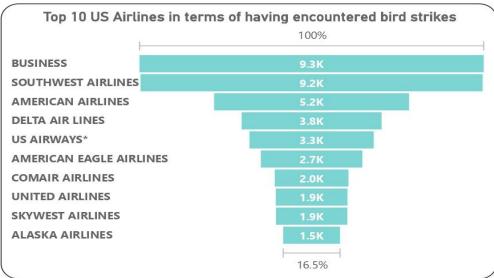


Dashboard



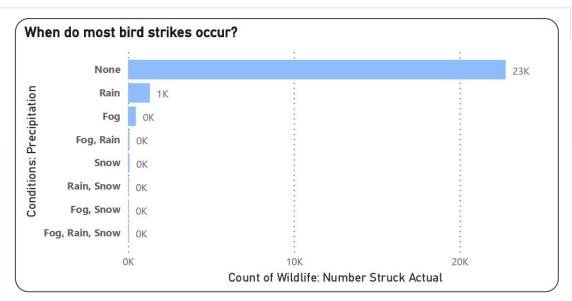


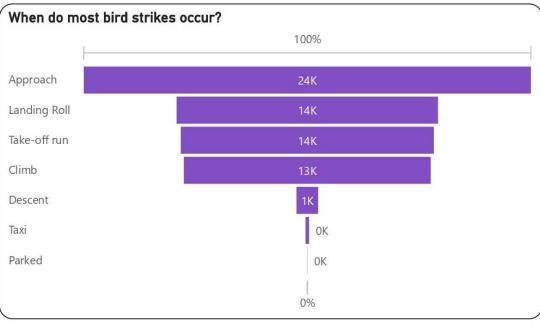






| Airport: Name | Count of Wildlife: Number struck |
|--|----------------------------------|
| DALLAS/FORT WORTH INTL ARPT | 802 |
| SACRAMENTO INTL | 676 |
| SALT LAKE CITY INTL | 479 |
| DENVER INTL AIRPORT | 476 |
| KANSAS CITY INTL | 452 |
| PHILADELPHIA INTL | 442 |
| ORLANDO INTL | 408 |
| BALTIMORE WASH INTL | 401 |
| LOUISVILLE INTL ARPT | 394 |
| JOHN F KENNEDY INTL | 389 |
| CHARLOTTE/DOUGLAS INTL ARPT | 367 |
| NASHVILLE INTL | 364 |
| LAMBERT-ST LOUIS INTL | 363 |
| CHICAGO O'HARE INTL ARPT | 331 |
| PORTLAND INTL (OR) | 313 |
| NEWARK LIBERTY INTL ARPT | 305 |
| CINCINNATI/NORTHERN KENTUCKY INTL ARPT | 302 |
| ATLANTA INTL | 296 |
| CHICAGO MIDWAY INTL ARPT | 295 |
| Total | 24747 |







Average Altitude of the airplanes in different phases at the time of strike

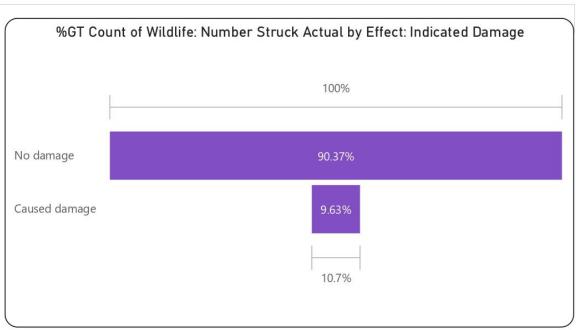
801.54

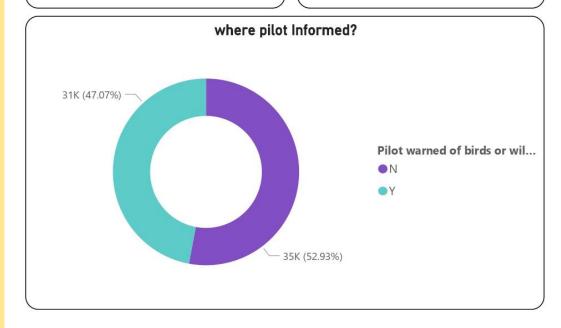
Average of Feet above ground

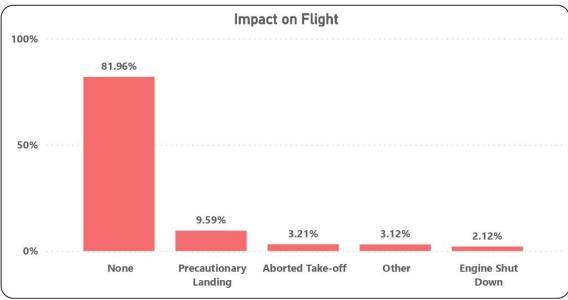


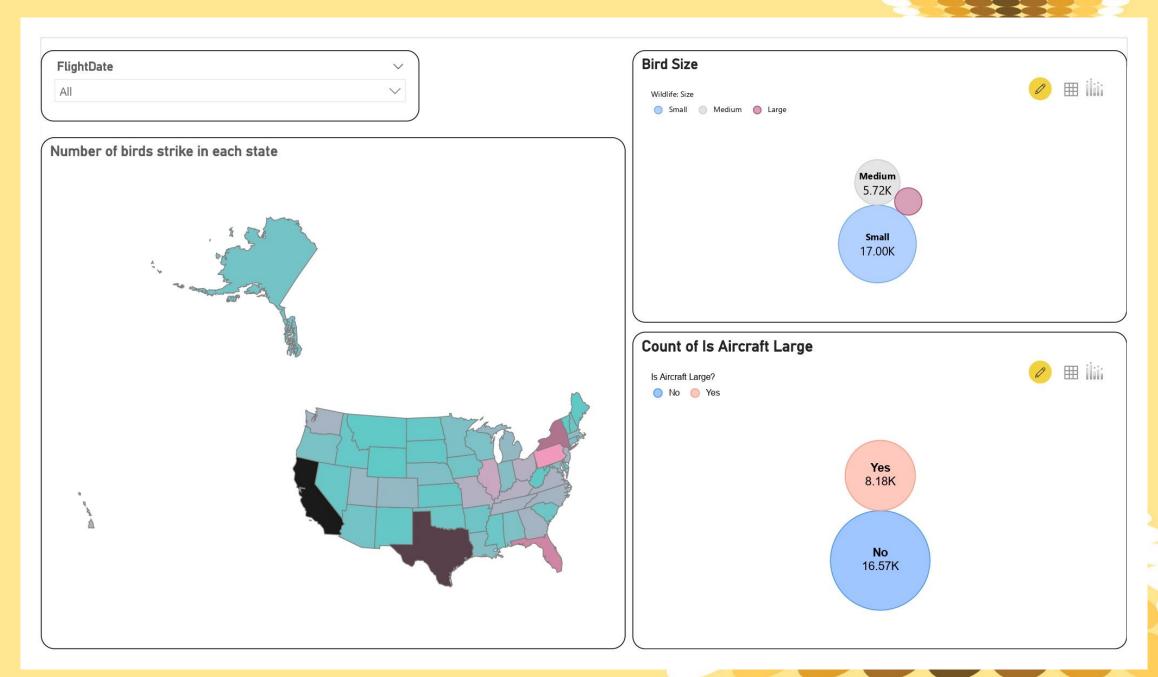
24.75K

Count of Effect: Impact to flight









THANK YOU