

# Data Visualization of Bird Strikes between 2000-2011

The background of the slide is a dark navy blue. In the bottom left corner, there are several parallel teal lines that create a sense of depth and modern design. These lines are of varying lengths and angles, some running horizontally and others diagonally, creating a geometric pattern.

# INTRODUCTION

- 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.
- Seeking new solutions is reaching a point where available technologies and artificial intelligence, especially MAS, are being recognized as ways to cope with and tackle these kinds of problems in a distributed and more appropriate way.

# DETAILS OF DATA

- 42.72% INCIDENTS WHERE PILOT WAS WARNED ABOUT THE BIRDS
- PRIOR WARNING TO THE PILOT REDUCES THE RISK OF DAMAGE TO THE AIRCRAFT
- 52.78% OF INCIDENTS HAVE HAPPENED DUE TO SOME SMALL UNKNOWN BIRD.
- 72.9% INCIDENTS HAVE HAPPENED
- WHEN THERE IS 1 BIRD/WILDLIFE IS STRUCK IN THE AIRPLANE AND CAUSED DAMAGE.
- 90.31% INCIDENTS CAUSED NO DAMAGE WHILE 9.69% INCIDENTS CAUSED DAMAGE
- 80.84% OF BIRD STRIKE INCIDENTS HAVE HAPPENED WHEN THE ALTITUDE OF AIRPLANE WAS <1000 FT AND 19.16% HAVE HAPPENED WHEN ALTITUDE WAS >1000 FT.

# Main KPIs

- ❖ 80.84% of bird strike incidents have happened when the altitude of airplane was <1000 ft and 19.16% have happened when altitude was >1000 ft.
- ❖ Prior warning to the pilot reduces the risk of damage to the aircraft 52.78% of incidents have happened due to some small unknown bird.

# MOCK-UP DASHBOARD

## Data Visualization of Bird Strikes between 2000 - 2011

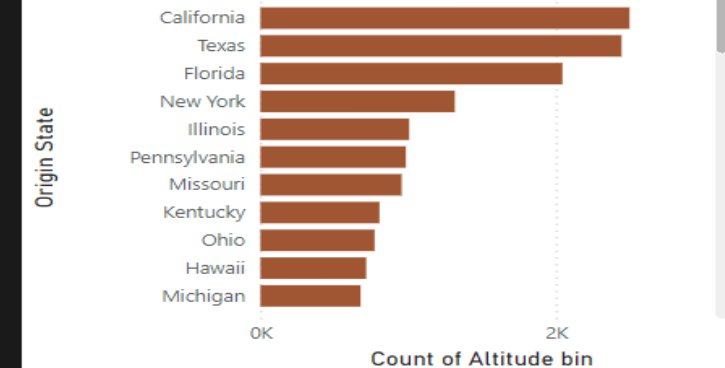
Number of Bird Strikes

24.75K

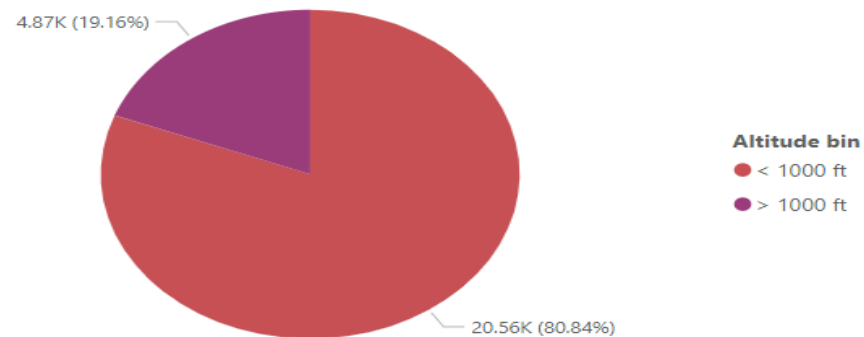
Total Cost in Repairments

136M

Count of Altitude bin by Origin State

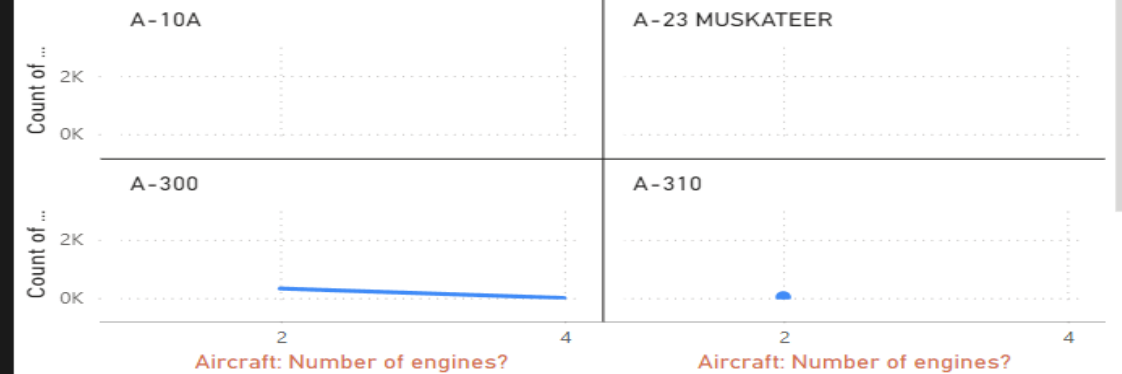


Count of Aircraft: Airline/Operator by Altitude bin

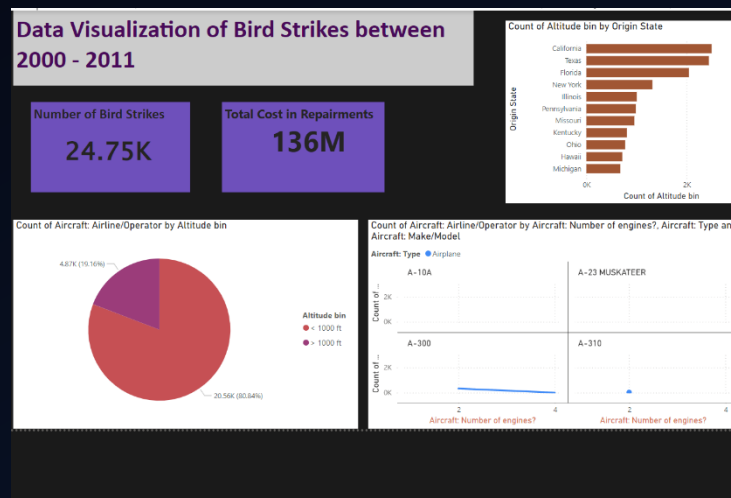
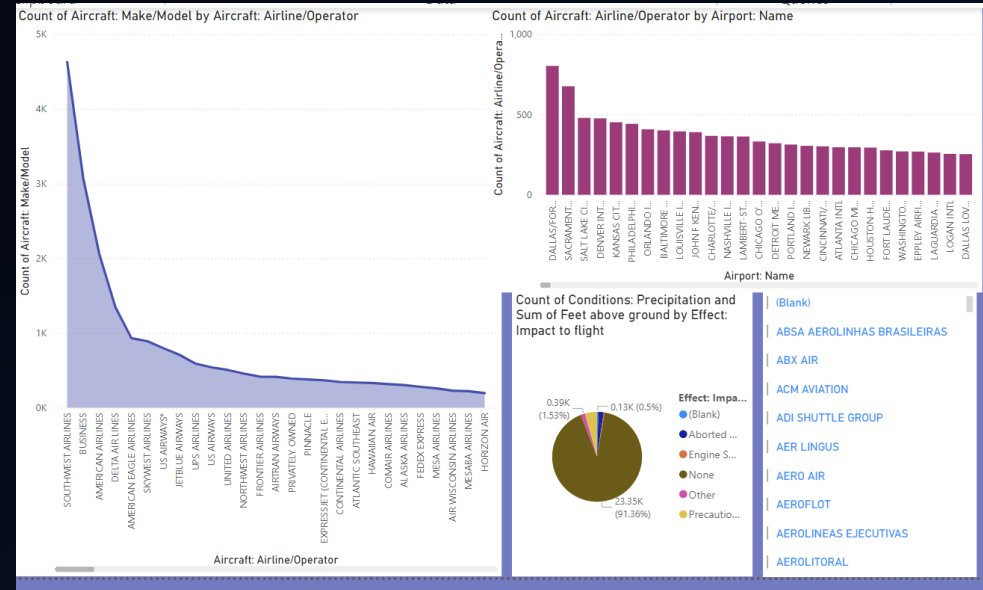
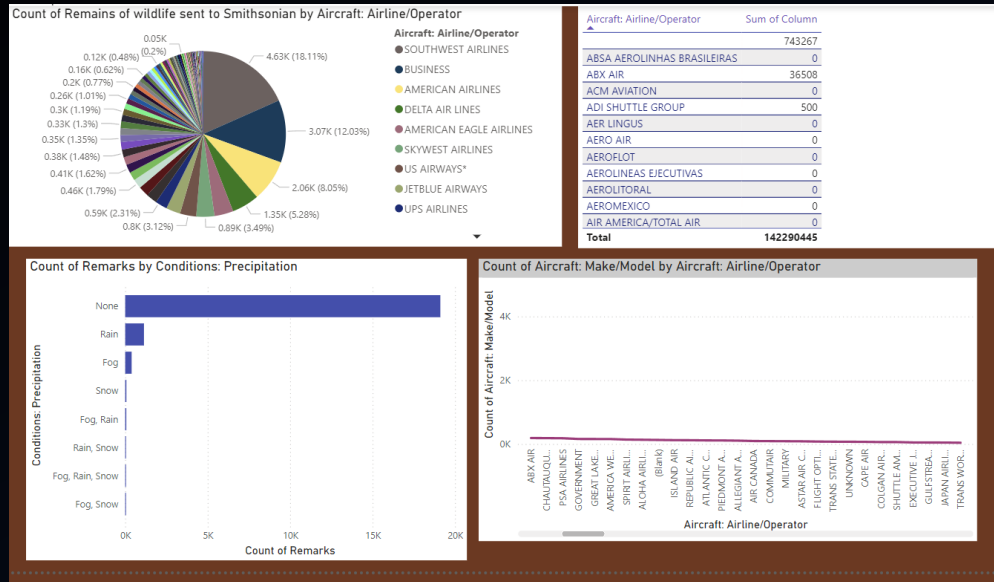


Count of Aircraft: Airline/Operator by Aircraft: Number of engines?, Aircraft: Type and Aircraft: Make/Model

Aircraft: Type ● Airplane



# MY DESIGN



THANK YOU