

# Internship Project

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Domian :

Data Science

(2 mnts,3 projects )

# **INSIGHT OF BIRD STRIKE**

## **Key Insights on Bird Strike Incidents:**

### **1. Airports with Most Bird Strikes:**

- Top five: *Dallas/Fort Worth, Sacramento Intl, Salt Lake City Intl, Denver Intl, Kansas City Intl.*

### **2. Aircraft Models Most Affected:**

- Over 1,000 bird strikes: *Boeing 737-700, 737-300, Bombardier CL-RJ100/200, Airbus A320, A319.*
- Safest: *ATR-72.*

### **3. Collision Altitudes & Flight Phases:**

- High altitude (~20,000 feet) strikes are common.
- Most strikes occur during approach, landing roll, and takeoff.

### **4. Collision Patterns:**

- More frequent near wildlife, especially in areas with smaller forest cover.
- Small and medium birds are most common, but often species remain unknown.

### **5. Damage from Strikes:**

- Many bird strikes cause no visible damage.
- Larger aircraft experience more strikes but are more resilient.

### **6. Engine Configuration:**

- Two-engine planes have the most collisions; four-engine planes are the safest.

### **7. Airlines & Regions:**

- *Southwest Airlines* reports the most bird strikes.
- Most strikes occur on flights from California, Texas, Florida, New York, and Illinois.

### **8. Weather & Visibility:**

- Clear skies are more prone to bird strikes than cloudy weather.

## 9. Pilot Awareness:

- Most bird strikes occur without the pilot detecting the birds beforehand.

## 10. Historical Trends:

- Highest wildlife-related strikes: 2003.
- Overall peak year for strikes: 2009.

### Summary

Bird strikes are most frequent near wildlife, during takeoff and landing, and in clear skies. Certain aircraft and airlines (two-engine planes and Southwest Airlines) are more prone to strikes, though larger planes tend to handle them better. These insights could guide safety improvements in aviation.

## INSIGHT OF ENTERTAINER DATASET

### Key Insights on Gender Representation and Career Span in Nominations:

#### 1. Gender Representation:

- Most years saw only male nominees, but in select years (1926, 1928, 1930, 1959, 1977, 1978, 1985, 1994, 1999, 2008), only female actors were nominated.

#### 2. Career Span:

- Top 10 Longest Careers:** *Katherine Hepburn* (60 years), *Carol Burnett*, *Johnny Depp*, *Bette Davis*, *Wayne Newton*, *Carrie Fisher*, *Tony Bennett*, *Dick Van Dyke*, *Paul McCartney*, and *Mary Tyler Moore*.
- Recent Breakthrough:** *Sly Stone* with *Everyday People* in 2017.
- 27 actors have careers over 30 years, with *Hepburn* having the longest.

#### 3. Nominations Trends:

- First nominee:** *Charlie Chaplin* (1915); **latest:** *Adele*.
- No actor has been nominated more than once, and no repeat nominations without wins.

#### 4. Decade Trends:

- The 1960s had the most nominations, while the 1910s had the fewest.

### Summary

*Katherine Hepburn* stands out for career longevity, while gender representation mostly favors men, with few years of female dominance. Despite long careers, no actor has received multiple nominations, indicating high competition. The 1960s marked a peak in nominations.

## **INSIGHT OF FINANCIAL ANALYTICS DATASET**

### **Key Insights on Foreign and Indian Companies in India:**

#### **Foreign Companies:**

- **34 countries** represented, with the **USA** having the most companies, followed by **Japan, Switzerland, Netherlands, and France** (equal representation).
- **Top Market Cap:** *Hindustan Unilever* (1st), *Maruti Suzuki* (2nd), followed by *Nestle India* and *Bosch*.
- **Top Sales:** *Maruti Suzuki* (1st), *Hindustan Unilever*, *GE Power*, and *Standard Chartered*.
- **Top 4 Market Cap-to-Sales Ratios:** *Hindustan Unilever*, *Maruti Suzuki*, *Nestle India*, *Bosch*.

#### **Indian Companies:**

- **Top Market Cap:** *Reliance Industries*, *TCS*, and *HDFC Bank*.
- **Top Sales:** *Indian Oil Corporation*, *Reliance Industries*, and *Tata Motors*.

#### **Sales-to-Market Cap Ratio:**

- Foreign companies: **17%** for the top 10; **5%** for others.

### **Summary:**

Foreign companies like *Hindustan Unilever* and *Maruti Suzuki* dominate both market cap and sales, with the USA leading foreign presence. Among Indian companies, *Reliance Industries* is the leader in both market cap and sales. The overall sales-to-market cap ratio for foreign firms is significantly lower than their market cap dominance.