DS1_C7_S4_Data Dictionary

Title: Mitigating Bird Strikes in Aviation

Analyze and mitigate bird strike incidents in aviation by leveraging a comprehensive dataset. By examining factors such as aircraft type, flight conditions, and wildlife species involved, the project seeks to identify patterns and key risk factors. Enhance aviation safety by developing informed strategies and recommendations for minimizing the impact of bird strikes on flights. Through data-driven insights, the project aims to contribute to the overall improvement of management around airports.

Data description:

1. **Record ID**: Unique identifier for each record in the dataset.
2. **Aircraft**: Type: Type of aircraft involved in the incident.
3. **Airport**: Name: Name of the airport where the incident occurred.
4. **Altitude bin**: Altitude range at which the wildlife strike occurred.
5. **Aircraft**: Make/Model: Make and model of the aircraft involved.
6. **Wildlife**: Number struck: Number of wildlife struck during the incident.
7. **Wildlife**: Number Struck Actual: Actual number of wildlife struck during the incident.
8. **Effect**: Impact to flight: Impact of the wildlife strike on the flight (e.g., Engine Shut Down, Precautionary Landing, etc.).
9. **FlightDate**: Date of the flight incident.
10. **Effect**: Indicated Damage: Indicated damage caused by the wildlife strike.
11. **Aircraft**: Number of engines?: Number of engines on the aircraft.
12. **Aircraft**: Airline/Operator: Airline or operator of the aircraft involved.
13. **Origin State**: State of origin of the flight.
14. **When**: Phase of flight: Phase of flight during which the wildlife strike occurred (e.g., Climb, Approach, Landing Roll, etc.).
15. **Conditions**: Precipitation: Presence of precipitation during the incident.
16. **Remains of wildlife collected**?: Whether remains of wildlife were collected after the incident.
17. **Remains of wildlife sent to Smithsonian**: Whether remains of wildlife were sent to the Smithsonian Institution.
18. **Remarks**: Additional remarks or notes about the incident.
19. **Wildlife**: Size: Size of the wildlife involved in the strike.
20. **Conditions**: Sky: Sky conditions during the incident (e.g., Some Cloud, No Cloud, etc.).
21. **Wildlife**: Species: Species of the wildlife involved in the strike.
22. **Pilot warned of birds or wildlife**?: Whether the pilot was warned of birds or wildlife prior to the incident.
23. **Cost**: Total $: Total cost incurred due to the incident.
24. **Feet above ground:** Altitude of the aircraft above ground during the incident.
25. **Number of people injured**: Number of people injured during the incident.
26. **Is Aircraft Large**?: Indicates whether the aircraft involved is large.