**Description of the Variables**

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| --- | --- | --- | --- |
| **Variable** | **Description of the incident** | **Level** | **Role** |
| Aircraft | Specifies the type of aircraft involved in the incident | Categorical | Input |
| Number\_Objects | Indicates the number of objects (e.g., birds) that struck the aircraft | Numerical | Input |
| Engines | Specifies the number of engines on the aircraft | Numerical | Input |
| Airline | Identifies the airline or operator of the aircraft | Categorical | Input |
| Origin State | The state where the incident originated | Categorical | Input |
| Phase | Phase of Flight | Categorical | Input |
| Description | Description of the incident | Text | Input |
| Object Size | Specifies the size of the object (e.g., bird) that struck the aircraft | Categorical | Input |
| Weather | Describes the sky condition during the incident, such as "No Cloud" or "Some Cloud" | Categorical | Input |
| Warning | A binary value (YES/NO) indicating whether the pilot was warned about the object (e.g., birds) before the incident | Binary | Input |
| Altitude | Records the altitude of the aircraft during the incident | Numerical | Input |
| Total Cost | Natural log of the total cost associated with the incident | Numerical | Target |