

Supplementary Material-1

Our main model of predicting 'Aircraft Damage' is analyzed through " Aircraft Wildlife Strikes "[28]

Here's the main description:

The information seems to be a list of flight activities categorized by different phases and conditions. However, it lacks specific details about aircraft systems. To elaborate according to aircraft systems, I'll infer based on the context you've given.

The data appears to catalog various flight phases, warnings issued, and visibility conditions across different FAA regions. Analyzing this from an aircraft systems perspective might involve understanding how different systems are engaged or affected during these flight phases.

1. Flight Phase: Each phase mentioned (e.g., climb, takeoff run, approach, landing roll, en route) involves specific aircraft systems working in tandem or undergoing specific procedures:

- Takeoff Run: During this phase, the engines, flight controls, and landing gear systems are critical. The engines power the aircraft for takeoff, flight control surfaces are adjusted for steady acceleration, and landing gear retraction occurs after liftoff.

- Climb: Climbing involves engine power adjustments, altitude control systems, and potentially pressurization systems as the aircraft ascends to its cruising altitude.

- Approach: This phase involves navigation systems, landing gear extension, flap deployment, and descent planning. It requires precise navigation and adjustments for landing.- Landing Roll: Here, the landing gear, brakes, and spoilers (if equipped) are engaged. The aircraft slows down after touchdown, using its braking systems and aerodynamic devices to aid in deceleration.

- En Route: This generally indicates the phase of steady flight between departure and destination. Various systems like navigation, communication, and autopilot might be engaged for smooth and safe flight.

2. Warnings Issued: The 'Y' and 'N' denote whether a warning was issued or not, but the specific nature of these warnings isn't detailed. Warnings could relate to system malfunctions, weather conditions, or procedural alerts that pilots must address or monitor.

3. Visibility and Time of Day: Day, night, dusk conditions affect aircraft systems differently. Lighting systems, navigation aids, and cockpit displays might be adjusted based on external visibility.

For instance:

- During nighttime approaches or takeoffs, lighting systems, instrument displays, and navigation aids become more critical due to reduced visibility.

- Daytime operations might focus on systems that assist with visibility for the pilots, like anti-glare measures or sunshades.

However, without specific details about the warnings issued or the aircraft models involved, it's challenging to precisely analyze the impact on individual aircraft systems or the reasons behind the warnings issued during these flight phases.

The provided data seems to present information related to wildlife encountered during aircraft operations, detailing various species, their attributes, and weather conditions. Explaining this concerning aircraft systems would involve considering how these factors interact with the safety and operation of the aircraft:

1. Precipitation (FOG/NONE): Precipitation or fog can significantly impact an aircraft's operation, particularly visibility. Fog can reduce visibility levels, potentially leading to altered flight procedures, the use of specialized navigation systems, or even flight delays or diversions.

2. Height, Speed, Distance: These parameters don't directly impact aircraft systems but provide context for the encounter with wildlife, potentially indicating the altitude or speed at which the aircraft is flying

when encountering these species. 3. Species ID and Name: Different species pose varying levels of risk to aircraft. Large birds or flocks, like geese or vultures, can cause significant damage if struck by an aircraft. Birds and wildlife in the vicinity of airports pose a threat to flight safety, potentially leading to bird strikes that can damage engines or aircraft structures.

4. Explanation According to Aircraft Systems:

- Weather Radar and Sensors: In foggy conditions, weather radar systems might be employed to detect nearby weather phenomena and optimize flight paths. These systems help in avoiding turbulent areas and provide information on precipitation, which includes fog.
- Collision Avoidance Systems: For wildlife encounters, collision avoidance systems or Traffic Collision Avoidance Systems (TCAS) alert pilots to nearby aircraft or, in some cases, large birds. These systems aid in preventing mid-air collisions or potential conflicts with birds.
- Engine and Structure Protection: Bird strikes can damage aircraft engines or impact the structure. Aircraft systems incorporate design features and materials to withstand or minimize damage from bird strikes.
- Pilot Awareness and Procedures: Pilots receive training on wildlife encounters and bird strike mitigation techniques. When encountering wildlife, they might execute evasive maneuvers or follow specific procedures to minimize risk.
- Flight Planning and Communication: Flight planning software and communication systems enable pilots to receive real-time updates on weather conditions, including fog or precipitation, and wildlife activity in the vicinity of the flight path. Air traffic control might provide advisories to pilots regarding known wildlife hazards.
- Emergency Response Preparedness: Aircraft systems also account for emergency responses in case of bird strikes or encounters with wildlife, enabling pilots to safely handle and navigate the aircraft if such an event occurs.

Encountering wildlife, especially birds, during flight poses a considerable safety risk, and aircraft systems and procedures are designed to mitigate these risks as much as possible for the safety of passengers and the aircraft. The dataset appears to catalog instances of wildlife encounters and their impact on aircraft operations,

particularly concerning the quantity of species encountered, the resulting flight impact, aircraft damage, and radome strikes.

Here's an explanation based on aircraft systems and their relation to this data:

1. Species Quantity: This refers to the number of animals or species encountered during flight. Higher quantities might increase the likelihood of a significant impact on the aircraft.
2. Flight Impact: This category likely indicates the severity or consequence of the wildlife encounter on the flight operations:
 - Precautionary Landing: This decision involves landing the aircraft due to a potential risk or concern arising from the encountered wildlife. It could be prompted by safety protocols or indications of a threat to the aircraft's systems or structure.
 - Other: A vague category that might encompass various non-specific impacts or responses not falling under a precautionary landing or aborted takeoff. This could include minor disturbances or encounters that don't pose immediate threats.
3. Aircraft Damage and Radome Strike:
 - Aircraft Damage: This denotes whether the aircraft sustained damage as a result of the encounter. Even minor damage can necessitate inspections and repairs for flight safety.
 - Radome Strike: The radome houses various aircraft systems, such as weather radar and other critical instruments. A strike on the radome might affect these systems' functionality or compromise their accuracy, requiring inspection and potential maintenance.

From an aircraft systems perspective:

- Collision Warning Systems: If wildlife encounters are detected by sensors or radars, collision warning systems might alert the crew, prompting decisions like precautionary landings or aborted takeoffs to prevent damage or hazards.

- Flight Control Systems: Precautionary landings and aborted takeoffs might involve flight control systems

adjusting aircraft speed, trajectory, or initiating emergency protocols to ensure safety.- Damage Assessment Systems: After an encounter, onboard systems or post-flight inspections would assess any damage sustained by the aircraft. Radome strikes might trigger system checks to ensure no critical instruments are compromised.

- Emergency Procedures and Protocols: Flight crews are trained in responding to wildlife encounters. They follow specific protocols for precautionary landings or aborted takeoffs based on the severity of the encounter and the potential impact on flight safety.

Overall, aircraft systems play a crucial role in detecting, responding to, and mitigating the impact of wildlife encounters to ensure the safety of the flight, crew, passengers, and the aircraft itself.

This dataset seems to document instances related to potential aircraft encounters with foreign objects or wildlife during flight. Here's an explanation based on the different categories provided:

Radome Damage: The radome is the protective cover housing various aircraft instruments, especially radar systems. Damage to the radome might affect the functionality of these critical instruments, necessitating inspection and potential repair.

Windshield Strike and Windshield Damage: This category specifically tracks strikes or damage to the windshield of the aircraft. Windshield strikes can be problematic, potentially leading to impairment of visibility or structural damage.

Nose Strike and Nose Damage: Strikes or damage to the nose of the aircraft. The nose is a critical aerodynamic component; damage here might affect flight performance or stability.

Interpreting this data from an aircraft systems perspective:

-Detection Systems: The aircraft might have systems like radar, sensors, or cameras that detect foreign objects or wildlife in the flight path. Strikes to the radome or windshield might indicate potential encounters with birds or debris.- Impact on Flight Systems: Damage to the radome, windshield, or nose can have varying effects on the aircraft's systems, avionics, and structural integrity. They might prompt inspections, system checks, or, in severe cases, the need for immediate maintenance.

- Safety and Response Protocols: Aircraft systems are equipped with protocols and emergency procedures for assessing damage, assessing potential risks to flight safety, and determining the need for immediate actions such as landing or diverting the flight.

- Flight Crew Awareness and Monitoring: Pilots are trained to monitor aircraft systems and respond appropriately to any indication of damage or potential issues with critical components like the radome, windshield, or nose.

The presence of strikes or damage to these components highlights potential risks to the aircraft's safety and functionality. These incidents often trigger post-flight inspections or maintenance to ensure the aircraft's continued airworthiness and safety for subsequent flights.

It appears this dataset documents potential strikes and subsequent damage to the engines of an aircraft. Here's an interpretation based on the provided data:

Engine X Strike and Damage: Each pair of columns relates to a specific engine (1 through 4) and indicates whether a strike occurred and if there was resulting damage.

Engine X Strike (0 or 1): Denotes whether a strike was recorded for a particular engine. A '1' signifies that an event of an engine strike was documented.

- **Engine X Damage (0 or 1):** Indicates if there was any damage observed after the strike. A '1' denotes that damage was recorded for a particular engine following the strike.

From an aircraft systems perspective:

- **Engine Strikes:** A strike against an engine can occur due to various reasons such as bird ingestion, foreign object damage, or even technical malfunctions. These events are usually recorded for further investigation and evaluation.- **Engine Damage:** A strike may or may not result in immediate damage to the engine. Damage

assessment is crucial as even minor damage can impact engine performance or safety, requiring inspection and potentially maintenance or repairs.

- **Maintenance and Inspection:** Any recorded engine strikes or damage would prompt inspection and assessment by maintenance crews to ensure that the engines remain in an airworthy condition for subsequent flights.

- **Safety Protocols and Response:** Strikes or potential damage to engines might trigger specific safety protocols, inspections, and even grounding of the aircraft for detailed checks and repairs before it's cleared for further flights.

The data recorded in this set is essential for maintaining the airworthiness and safety of the aircraft, ensuring that any issues related to engine strikes or potential damage are addressed promptly to maintain safe flight operations.

It seems like this dataset is tracking potential strikes and subsequent damage to various parts of an aircraft. Here's an interpretation based on the provided data:

Engine Ingested: Indicates whether any foreign object, like birds or debris, was ingested into the engine during flight. Ingestion can potentially cause serious damage to the engine.

Propeller Strike and Damage: Refers to strikes against the propeller of the aircraft. Damage to the propeller might impact the aircraft's performance or aerodynamics.

Wing or Rotor Strike and Damage: Records strikes and resulting damage to the wings or rotors. Damage to these parts can significantly affect the aircraft's maneuverability and lift.

Fuselage Strike and Damage: Tracks strikes and potential damage to the fuselage, the main body of the aircraft. Damage here might compromise structural integrity or aerodynamics.

From an aircraft systems perspective:- **Engine Ingestion:** Engine ingestion of foreign objects is a critical concern as it can lead to engine failure

or malfunctions. Aircraft systems monitor for such events and can trigger inspections or maintenance protocols.

- **Propeller, Wing, Rotor, and Fuselage Damage:** These elements constitute vital parts of the aircraft. Strikes and damages to these areas would require thorough inspections to assess the extent of the damage and ensure the aircraft's continued airworthiness.

- **Safety Protocols and Maintenance:** Any recorded strikes or damages to these critical parts would prompt inspections by maintenance crews. If substantial damage is observed, the aircraft might be grounded for repairs to ensure safe operations.

- **Impact on Flight Operations:** Depending on the severity of the recorded strikes or damages, it might necessitate alterations in flight plans or routes to land the aircraft safely for inspection or repairs.

The data emphasizes the importance of tracking and assessing potential strikes or damages to key aircraft components. Addressing these issues promptly is crucial to maintain flight safety and the airworthiness of the aircraft for subsequent operations.

This dataset appears to record instances related to potential strikes and resulting damage to various components of an aircraft during operations. Here's an interpretation based on the provided data:

Landing Gear Strike and Damage: Tracks incidents where there was a strike against the landing gear and

whether it resulted in subsequent damage. Damage to the landing gear can significantly affect the aircraft's ability to safely land.

Tail Strike and Damage: Records instances of strikes against the tail section of the aircraft and whether it caused any damage. Tail strikes can affect the aircraft's stability and structure.

Lights Strike and Damage: Indicates strikes against the aircraft lights and any resulting damage. Though not critical to flight, damage to lights might require maintenance for compliance with aviation regulations.

Other Strike: Represents strikes that might affect other components not specified in the previous

categories. This could include strikes against parts not explicitly mentioned, necessitating further inspection.

From an aircraft systems perspective:

Safety and Maintenance: Strikes against critical parts such as the landing gear, tail, or lights might trigger maintenance checks or inspections to ensure the aircraft's continued airworthiness and safety for future flights.

Impact on Flight Operations: Tail strikes, landing gear strikes, or damage to critical components often prompt a detailed investigation to assess the extent of damage and its impact on the aircraft's ability to operate safely.

-Compliance and Regulations: Damage to lights, though not directly affecting flight safety, might require repairs to comply with aviation regulations, ensuring the aircraft is equipped with all necessary operational lights.

This data underscores the importance of recording and assessing strikes against different parts of an aircraft to ensure the overall safety and airworthiness of the aircraft. Addressing and rectifying any damages promptly is crucial for maintaining safe flight operations.

Here's an overview of the data:

Other Damage: Indicates whether any "other" type of damage was recorded (1 for damage, 0 for no damage).

Record ID: Unique identifiers associated with each incident record.

-Incident Year and Month: Records the year and month when each incident occurred.

- Incident Day: Day of the month when the incident occurred.

- Operator ID: ID representing the operator involved in the incident.- Operator: Name or designation of the operator.

- Aircraft: Type or model of the aircraft involved in the incident.

Each entry seems to describe a separate aviation-related incident, noting the operator, aircraft, and the day of the incident. Understanding the context or having additional details about the nature of these incidents would be necessary to derive any specific conclusions or insights from this dataset.

- Aircraft Type: Type or category of the aircraft.

- Aircraft Make: Manufacturer of the aircraft.

- Aircraft Model: Specific model of the aircraft.

- Aircraft Mass: Mass of the aircraft.

- Engine Make: Manufacturer of the engine installed in the aircraft.

Engine Model: Specific model of the engine.

-Engines: Number of engines installed on the aircraft.

Engine Type:Denotes the type or category of the engine.

Engine Position (1-4): Indicates the position of each engine on the aircraft.

The engine positions, represented numerically from 1 to 4, likely correspond to different locations on the

aircraft where the engines are installed. The letters in the "Engine Type" column seem to categorize the

type or classification of the engines.

Understanding the engine layout and types can be crucial for maintenance, performance evaluation, and understanding the overall design and capabilities of different aircraft.

Logistic equation:

Accuracy: 0.9146516569984493

Coefficients: [-7.7981664327732e-06, -0.00012671383404183034, -2.7676694342795568e-05, 3.9071083403890076e-05, -0.0005505020747478244, -0.0012313052986683696, -0.0008827464912260792, -9.71703014627508e-05, -0.0012851103396767905, -0.0016968642502786515, -0.00019288263951214085, -1.8794970462084025e-05, -0.002795956894529782, -4.026177465987255e-05, -0.0003792210586843602, 5.4443198508801574e-05, 2.3367485758821776e-05, 5.602174514222509e-05, 1.4447540771927367e-07, 0.0004555257544437115, 0.000247704801597267, 0.0007475314427399769, 0.0001938310472372908, -3.664713303510699e-05, -0.0002460512875798479, -9.487615145886752e-05, -5.560009549114378e-05, 0.002806561151770016, -0.0009110431976085044, 0.00025806630900015505, -0.0062911564021939075, 0.0010559750166115032, 2.347165696490519e-05, 1.8166927865119812e-05, 5.247218235053167e-07, 1.465858649652281e-06, 3.110831488456621e-06, 4.2458300311747616e-05, -2.902953965759889e-05, 2.542797209351327e-05, -1.3244271552387492e-05, 2.8996707014846826e-05, 5.983227069558991e-05, 6.876440728275747e-05, 4.8157242481395836e-05, 5.606402919858233e-05, 4.122390246971582e-06, 4.501022455798781e-06, 1.914693069551168e-06, 2.0937781577934844e-06, 9.342643686100142e-05, 1.2709737422643224e-05, 1.393872720765026e-05, 8.17357642367974e-05, 0.00011049199267050107, -1.4656746075253825e-05, 2.0582082189135984e-05, 1.2303552312153192e-05, 2.5405907325020063e-05, 1.8701980889306024e-05, 1.874874596956836e-05, 2.003844169911011e-05, 2.0094285323054596e-05, 1.3107480204826981e-05, 4.084637442610634e-05]

Intercept: 5.900325362946771e-06

Logistic Equation:

$$P(\text{Aircraft Damage}=1) = 1 / (1 + e^{(-(5.900325362946771e-06 + -0.0000007798 * \text{Record ID} + -0.000126714 * \text{Incident Year} + -0.000027677 * \text{Incident Month} + 0.000039071 * \text{Incident Day} + -0.000550502 * \text{Operator ID} + -0.001231305 * \text{Operator} + -0.000882746 * \text{Aircraft} + -0.000097170 * \text{Aircraft Type} + -0.001285110 * \text{Aircraft Make} + -0.001696864 * \text{Aircraft Model} + -0.000192883 * \text{Aircraft Mass} + -0.000018795 * \text{Engine Make} + -0.002795957 * \text{Engine Model} + -0.000040262 * \text{Engines} + -0.000379221 * \text{Engine Type} + 0.000054443 * \text{Engine1 Position} + 0.000023367 * \text{Engine2 Position} + 0.000056022 * \text{Engine3 Position} + 0.000000144 * \text{Engine4 Position} + 0.000455526 * \text{Airport ID} + 0.000247705 * \text{Airport} + 0.000747531 * \text{State} + 0.000193831 * \text{FAA Region} + -0.000036647 * \text{Warning Issued} + -0.000246051 * \text{Flight Phase} + -0.000094876 * \text{Visibility} + -0.000055600 * \text{Precipitation} + 0.002806561 * \text{Height} + -0.000911043 * \text{Speed} + 0.000258066 * \text{Distance} + -0.006291156 * \text{Species ID} + 0.001055975 * \text{Species Name} + 0.000023472 * \text{Species Quantity} + 0.000018167 * \text{Flight Impact} + 0.000000525 * \text{Fatalities} + 0.000001466 * \text{Injuries} + 0.000003111 * \text{Radome Strike} + 0.000042458 * \text{Radome Damage} + -0.000029030 * \text{Windshield Strike} + 0.000025428 * \text{Windshield Damage} + -0.000013244 * \text{Nose Strike} + 0.000028997 * \text{Nose Damage} + 0.000059832 * \text{Engine1 Strike} + 0.000068764 * \text{Engine1 Damage} + 0.000048157 * \text{Engine2 Strike} + 0.000056064 * \text{Engine2 Damage} + 0.000004122 * \text{Engine3 Strike} + 0.000004501 * \text{Engine3 Damage} + 0.000001915 * \text{Engine4 Strike} + 0.000002094 * \text{Engine4 Damage} + 0.000093426 * \text{Engine Ingested} + 0.000012710 * \text{Propeller Strike} + 0.000013939 * \text{Propeller Damage} + 0.000081736 * \text{Wing or Rotor Strike} + 0.000110492 * \text{Wing or Rotor Damage} + -0.000014657 * \text{Fuselage Strike} + 0.000020582 * \text{Fuselage Damage} + 0.000012304 * \text{Landing Gear Strike} + 0.000025406 * \text{Landing Gear Damage} + 0.000018702 * \text{Tail Strike} + 0.000018749 * \text{Tail Damage} + 0.000020038 * \text{Lights Strike} +)]$$

0.000020094*Lights Damage + 0.000013107*Other Strike + 0.000040846*Other Damage))**This equation will provide the probability of aircraft damage prior takeoff taking all other values through infrared waves measurements and the given inputs will be also cross checked through another method predicting another variables used in the target ‘aircraft damage’ prior aircraft takeoff and also for further research.**

Some part of the engine or fuel system was said to have failed in 35 percent of the accidents, and component fatigue was noted in 23 percent of the accidents. Flight control or structural SCFM was involved in 54 of the accidents. Of these, 46 percent were related to maintenance errors.

Linear Equation:

Aircraft Damage = -0.329380183 + 0.001323339 * Incident Year + -0.000358514 * Incident Month + -0.000002263 * Incident Day + 0.000005419 * Operator ID + -0.000014574 * Operator + -0.000023538 * Aircraft + -0.011418419 * Aircraft Type + 0.000140515 * Aircraft Make + 0.000038705 * Aircraft Model + -0.010963719 * Aircraft Mass + -0.000164789 * Engine Make + 0.000027757 * Engine Model + 0.003623286 * Engines + 0.000228460 * Engine Type + -0.002779019 * Engine1 Position + 0.006798090 * Engine2 Position + 0.005665878 * Engine3 Position + -0.013909133 * Engine4 Position + 0.000002050 * Airport ID + 0.000001441 * Airport + 0.000092642 * State + 0.000425391 * FAA Region + -0.001032758 * Warning Issued + -0.000895018 * Flight Phase + -0.001306495 * Visibility + 0.000399879 * Precipitation + 0.000006331 * Height + -0.000005217 * Speed + 0.000086043 * Distance + -0.000056641 * Species ID + -0.0000002160 * Species Name + -0.003198927 * Species Quantity + 0.000896086 * Flight Impact + 0.009310114 * Fatalities + 0.056253739 * Injuries + -0.031928697 * Radome Strike + 0.720385450 * Radome Damage + -0.042129955 * Windshield Strike + 0.719632819 * Windshield Damage + -0.030729020 * Nose Strike + 0.421326753 * Nose Damage + -0.037759038 * Engine1 Strike + 0.699840233 * Engine1 Damage + -0.048546605 * Engine2 Strike + 0.749189369 * Engine2 Damage + -0.032898927 * Engine3 Strike + 0.739009161 * Engine3 Damage + -0.023893063 * Engine4 Strike + 0.723872882 * Engine4 Damage + 0.062739536 * Engine Ingested + 0.005423022 * Propeller Strike + 0.101071716 * Propeller Damage + -0.031462053 * Wing or Rotor Strike + 0.752196200 * Wing or Rotor Damage + -0.032117190 * Fuselage Strike + 0.203787016 * Fuselage Damage + -0.022669545 * Landing Gear Strike + 0.368044921 * Landing Gear Damage + 0.056940757 * Tail Strike + 0.362720344 * Tail Damage + 0.279671988 * Lights Strike + 0.235140261 * Lights Damage + -0.044531658 * Other Strike + 0.674197509 * Other Damage

Accuracy: 0.9872494400091896

Polynomial Equation:

coefficient [2.30535578e-06 6.87479882e-02 -8.01386788e-03 ... -7.30537878e-02 1.04807864e-01 1.45455842e-01]

intercept 0.8068407278632641

Equation:

Aircraft Damage= 0.806840728 + 0.068747988 * Incident Year + -0.008013868 * Incident Month + 0.000780327 * Incident Day + -0.024813391 * Operator ID + 0.029162988 * Operator + 0.000236986 * Aircraft + 0.000085984 * Aircraft Type + -0.002301735 * Aircraft Make + -0.000137207 * Aircraft Model + 0.248861779 * Aircraft Mass + -0.012891359 * Engine Make + -0.017859949 * Engine Model + 0.104119972 * Engines + 0.391613217 * Engine Type + 0.338367098 * Engine1 Position + -0.717494584 * Engine2 Position + -

0.402442662 * Engine3 Position + -0.208520187 * Engine4 Position + -0.000063941 * Airport ID + -0.000060834 * Airport + -0.000605145 * State + 0.004483331 * FAA Region + 0.167281222 * Warning Issued + -0.002682389 * Flight Phase + -0.048254439 * Visibility + -0.486107823 * Precipitation + 0.000112667 * Height + 0.019071296 * Speed + -0.000871889 * Distance + 0.000249538 * Species ID + 0.000124084 * Species Name + -0.252562771 * Species Quantity + -0.039928089 * Flight Impact + 0.261395050 * Fatalities + -0.416336210 * Injuries + 0.106272789 * Radome Strike + 1.577029297 * Radome Damage + 0.228503987 * Windshield Strike + 0.223200344 * Windshield Damage + 0.000075512 * Nose Strike + 0.237697126 * Nose Damage + 0.079816568 * Engine1 Strike + 0.250397040 * Engine1Damage + -0.926443572 * Engine2 Strike + 0.276430055 * Engine2 Damage + -0.000337945 * Engine3 Strike + 0.251998974 * Engine3 Damage + -0.014480536 * Engine4 Strike + 0.179350602 * Engine4 Damage + 0.051895427 * Engine Ingested + 0.087286732 * Propeller Strike + 0.020258461 * Propeller Damage + -0.128816367 * Wing or Rotor Strike + 0.583718271 * Wing or Rotor Damage + 0.010392681 * Fuselage Strike + 0.335536967 * Fuselage Damage + 0.459445956 * Landing Gear Strike + 0.262087775 * Landing Gear Damage + -0.004189420 * Tail Strike + 0.153205457 * Tail Damage + 0.359587695 * Lights Strike + 0.122949430 * Lights Damage + -0.073052190 * Other Strike + 0.145455564 * Other Damage + 0.000000000 * Record ID^2 + -0.000000017 * Record ID^1*Incident Year^1 + 0.000000019 * Record ID^1*Incident Month^1 + -0.000000001 * Record ID^1*Incident Day^1 + -0.000000000 * Record ID^1*Operator ID^1 + -0.000000000 * Record ID^1*Operator^1 + -0.000000000 * Record ID^1*Aircraft^1 + 0.000000097 * Record ID^1*Aircraft Type^1 + -0.000000002 * Record ID^1*Aircraft Make^1 + -0.000000002 * Record ID^1*Aircraft Model^1 + 0.000000030 * Record ID^1*Aircraft Mass^1 + 0.000000001 * Record ID^1*Engine Make^1 + -0.000000002 * Record ID^1*Engine Model^1 + -0.000000107 * Record ID^1*Engines^1 + 0.000000062 * Record ID^1*Engine Type^1 + -0.000000037 * Record ID^1*Engine1 Position^1 + 0.000000097 * Record ID^1*Engine2 Position^1 + 0.000000033 * Record ID^1*Engine3 Position^1 + -0.000000197 * Record ID^1*Engine4 Position^1 + 0.000000000 * Record ID^1*Airport ID^1 + -0.000000000 * Record ID^1*Airport^1 + -0.000000002 * Record ID^1*State^1 + -0.000000010 * Record ID^1*FAA Region^1 + 0.000000069 * Record ID^1*Warning Issued^1 + 0.000000002 * Record ID^1*Flight Phase^1 + -0.000000016 * Record ID^1*Visibility^1 + -0.000000021 * Record ID^1*Precipitation^1 + -0.000000000 * Record ID^1*Height^1 + 0.000000001 * Record ID^1*Speed^1 + -0.000000000 * Record ID^1*Distance^1 + 0.000000001 * Record ID^1*Species ID^1 + 0.000000000 * Record ID^1*Species Name^1 + -0.000000066 * Record ID^1*Species Quantity^1 + 0.000000012 * Record ID^1*Flight Impact^1 + -0.0000000285 * Record ID^1*Fatalities^1 + -0.000000181 * Record ID^1*Injuries^1 + 0.000000010 * Record ID^1*Radome Strike^1 + 0.000000856 * Record ID^1*Radome Damage^1 + 0.000000099 * Record ID^1*Windshield Strike^1 + 0.000000028 * Record ID^1*Windshield Damage^1 + 0.000000017 * Record ID^1*Nose Strike^1 + -0.000000341 * Record ID^1*Nose Damage^1 + -0.000000166 * Record ID^1*Engine1 Strike^1 + -0.000000079 * Record ID^1*Engine1 Damage^1 + -0.000000467 * Record ID^1*Engine2 Strike^1 + 0.000000776 * Record ID^1*Engine2 Damage^1 + -0.000000094 * Record ID^1*Engine3 Strike^1 + -0.000000104 * Record ID^1*Engine3 Damage^1 + -0.000000235 * Record ID^1*Engine4 Strike^1 + -0.000000392 * Record ID^1*Engine4 Damage^1 + 0.000000285 * Record ID^1*Engine Ingested^1 + 0.000000427 * Record ID^1*Propeller Strike^1 + 0.000001530 * Record ID^1*Propeller Damage^1 + -

0.000000057 * Record ID^1*Wing or Rotor Strike^1 + 0.000000563 * Record ID^1*Wing or Rotor Damage^1 + 0.000000037 * Record ID^1*Fuselage Strike^1 + -0.000001894 * Record ID^1*Fuselage Damage^1 + 0.000000012 * Record ID^1*Landing Gear Strike^1 + 0.000000585 * Record ID^1*Landing Gear Damage^1 + -0.000000647 * Record ID^1*Tail Strike^1 + 0.000000074 * Record ID^1*Tail Damage^1 + -0.000001143 * Record ID^1*Lights Strike^1 + 0.000001611 * Record ID^1*Lights Damage^1 + -0.000000035 * Record ID^1*Other Strike^1 + 0.000001205 * Record ID^1*Other Damage^1 + 0.000028426 * Incident Year^2 + -0.000133618 * Incident Year^1*Incident Month^1 + 0.000010294 * Incident Year^1*Incident Day^1 + -0.000000038 * Incident Year^1*Operator ID^1 + 0.000000360 * Incident Year^1*Operator^1 + 0.000001428 * Incident Year^1*Aircraft^1 + -0.000431770 * Incident Year^1*Aircraft Type^1 + 0.000004911 * Incident Year^1*Aircraft Make^1 + 0.000014590 * Incident Year^1*Aircraft Model^1 + -0.000458568 * Incident Year^1*Aircraft Mass^1 + 0.000007241 * Incident Year^1*Engine Make^1 + 0.000008967 * Incident Year^1*Engine Model^1 + 0.000509015 * Incident Year^1*Engines^1 + -0.000337128 * Incident Year^1*Engine Type^1 + 0.000315636 * Incident Year^1*Engine1 Position^1 + -0.000891503 * Incident Year^1*Engine2 Position^1 + -0.000445358 * Incident Year^1*Engine3 Position^1 + 0.001506108 * Incident Year^1*Engine4 Position^1 + -0.000000898 * Incident Year^1*Airport ID^1 + 0.000000561 * Incident Year^1*Airport^1 + 0.000010889 * Incident Year^1*State^1 + 0.000043632 * Incident Year^1*FAA Region^1 + -0.000517310 * Incident Year^1*Warning Issued^1 + -0.000015262 * Incident Year^1*Flight Phase^1 + 0.000122460 * Incident Year^1*Visibility^1 + 0.000201302 * Incident Year^1*Precipitation^1 + 0.000002210 * Incident Year^1*Height^1 + -0.000007478 * Incident Year^1*Speed^1 + 0.000000388 * Incident Year^1*Distance^1 + -0.000006998 * Incident Year^1*Species ID^1 + -0.000001272 * Incident Year^1*Species Name^1 + 0.000244571 * Incident Year^1*Species Quantity^1 + -0.000086246 * Incident Year^1*Flight Impact^1 + -0.013865211 * Incident Year^1*Fatalities^1 + 0.000763240 * Incident Year^1*Injuries^1 + -0.000151872 * Incident Year^1*Radome Strike^1 + -0.005451177 * Incident Year^1*Radome Damage^1 + -0.000973827 * Incident Year^1*Windshield Strike^1 + -0.002791885 * Incident Year^1*Windshield Damage^1 + -0.000178701 * Incident Year^1*Nose Strike^1 + 0.003694468 * Incident Year^1*Nose Damage^1 + 0.001260484 * Incident Year^1*Engine1 Strike^1 + 0.000829141 * Incident Year^1*Engine1 Damage^1 + 0.003420753 * Incident Year^1*Engine2 Strike^1 + -0.003268892 * Incident Year^1*Engine2 Damage^1 + 0.001249257 * Incident Year^1*Engine3 Strike^1 + -0.000102588 * Incident Year^1*Engine3 Damage^1 + 0.002914860 * Incident Year^1*Engine4 Strike^1 + -0.000669703 * Incident Year^1*Engine4 Damage^1 + -0.002411965 * Incident Year^1*Engine Ingested^1 + -0.002617467 * Incident Year^1*Propeller Strike^1 + -0.010833792 * Incident Year^1*Propeller Damage^1 + 0.000197529 * Incident Year^1*Wing or Rotor Strike^1 + -0.003000436 * Incident Year^1*Wing or Rotor Damage^1 + -0.000593428 * Incident Year^1*Fuselage Strike^1 + 0.014389984 * Incident Year^1*Fuselage Damage^1 + -0.000554412 * Incident Year^1*Landing Gear Strike^1 + -0.003599097 * Incident Year^1*Landing Gear Damage^1 + 0.004319069 * Incident Year^1*Tail Strike^1 + 0.001376953 * Incident Year^1*Tail Damage^1 + 0.013015105 * Incident Year^1*Lights Strike^1 + -0.015363198 * Incident Year^1*Lights Damage^1 + -0.000199665 * Incident Year^1*Other Strike^1 + -0.008901577 * Incident Year^1*Other Damage^1 + 0.000016901 * Incident Month^2 + -0.000001758 * Incident Month^1*Incident Day^1 + 0.000000162 * Incident Month^1*Operator ID^1 + -0.000000591 * Incident Month^1*Operator^1 + -0.000000070 * Incident Month^1*Aircraft^1 + 0.000387001 * Incident Month^1*Aircraft

Type^1 + -0.000010829 * Incident Month^1*Aircraft Make^1 + -0.000000584 * Incident Month^1*Aircraft Model^1 + 0.000139901 * Incident Month^1*Aircraft Mass^1 + -0.000011507 * Incident Month^1*Engine Make^1 + -0.000002462 * Incident Month^1*Engine Model^1 + -0.000036650 * Incident Month^1*Engines^1 + 0.000036371 * Incident Month^1*Engine Type^1 + -0.000129481 * Incident Month^1*Engine1 Position^1 + 0.000292056 * Incident Month^1*Engine2 Position^1 + 0.000075879 * Incident Month^1*Engine3 Position^1 + -0.000141469 * Incident Month^1*Engine4 Position^1 + -0.000000093 * Incident Month^1*Airport ID^1 + 0.000000111 * Incident Month^1*Airport^1 + 0.000003495 * Incident Month^1*State^1 + -0.000030466 * Incident Month^1*FAA Region^1 + -0.000157663 * Incident Month^1*Warning Issued^1 + 0.000007850 * Incident Month^1*Flight Phase^1 + 0.000055239 * Incident Month^1*Visibility^1 + 0.000101399 * Incident Month^1*Precipitation^1 + -0.000001077 * Incident Month^1*Height^1 + 0.000001764 * Incident Month^1*Speed^1 + 0.000000593 * Incident Month^1*Distance^1 + 0.000000528 * Incident Month^1*Species ID^1 + 0.000000096 * Incident Month^1*Species Name^1 + -0.000064993 * Incident Month^1*Species Quantity^1 + 0.000072644 * Incident Month^1*Flight Impact^1 + -0.000262524 * Incident Month^1*Fatalities^1 + 0.001178034 * Incident Month^1*Injuries^1 + 0.000260641 * Incident Month^1*Radome Strike^1 + -0.000258934 * Incident Month^1*Radome Damage^1 + 0.000291140 * Incident Month^1*Windshield Strike^1 + 0.000603230 * Incident Month^1*Windshield Damage^1 + 0.000077855 * Incident Month^1*Nose Strike^1 + -0.002695630 * Incident Month^1*Nose Damage^1 + 0.000324468 * Incident Month^1*Engine1 Strike^1 + 0.004907694 * Incident Month^1*Engine1 Damage^1 + 0.000866670 * Incident Month^1*Engine2 Strike^1 + 0.000454400 * Incident Month^1*Engine2 Damage^1 + 0.000831264 * Incident Month^1*Engine3 Strike^1 + 0.000322057 * Incident Month^1*Engine3 Damage^1 + 0.004820941 * Incident Month^1*Engine4 Strike^1 + -0.003263132 * Incident Month^1*Engine4 Damage^1 + -0.000695901 * Incident Month^1*Engine Ingested^1 + 0.000425956 * Incident Month^1*Propeller Strike^1 + 0.003203550 * Incident Month^1*Propeller Damage^1 + 0.000153794 * Incident Month^1*Wing or Rotor Strike^1 + -0.000352098 * Incident Month^1*Wing or Rotor Damage^1 + 0.000306760 * Incident Month^1*Fuselage Strike^1 + 0.005494555 * Incident Month^1*Fuselage Damage^1 + 0.000097985 * Incident Month^1*Landing Gear Strike^1 + 0.001473276 * Incident Month^1*Landing Gear Damage^1 + -0.000252944 * Incident Month^1*Tail Strike^1 + 0.000080702 * Incident Month^1*Tail Damage^1 + -0.003506611 * Incident Month^1*Lights Strike^1 + 0.013754467 * Incident Month^1*Lights Damage^1 + 0.000274627 * Incident Month^1*Other Strike^1 + -0.002745946 * Incident Month^1*Other Damage^1 + 0.000001721 * Incident Day^2 + -0.000000010 * Incident Day^1*Operator ID^1 + 0.000000030 * Incident Day^1*Operator^1 + -0.000000232 * Incident Day^1*Aircraft^1 + 0.000073730 * Incident Day^1*Aircraft Type^1 + 0.000003571 * Incident Day^1*Aircraft Make^1 + -0.000001231 * Incident Day^1*Aircraft Model^1 + 0.000062372 * Incident Day^1*Aircraft Mass^1 + -0.000000114 * Incident Day^1*Engine Make^1 + 0.000000366 * Incident Day^1*Engine Model^1 + -0.000184998 * Incident Day^1*Engines^1 + 0.000013567 * Incident Day^1*Engine Type^1 + -0.000014463 * Incident Day^1*Engine1 Position^1 + 0.000026181 * Incident Day^1*Engine2 Position^1 + -0.000010058 * Incident Day^1*Engine3 Position^1 + -0.000081778 * Incident Day^1*Engine4 Position^1 + -0.000000023 * Incident Day^1*Airport ID^1 + -0.000000017 * Incident Day^1*Airport^1 + -0.000000452 * Incident Day^1*State^1 + -

0.000003130 * Incident Day^1*FAA Region^1 + 0.000024669 * Incident Day^1*Warning Issued^1 + -0.000009810 * Incident Day^1*Flight Phase^1 + -0.000012232 * Incident Day^1*Visibility^1 + -0.000007433 * Incident Day^1*Precipitation^1 + 0.000000017 * Incident Day^1*Height^1 + 0.000000220 * Incident Day^1*Speed^1 + -0.000000111 * Incident Day^1*Distance^1 + 0.000000184 * Incident Day^1*Species ID^1 + 0.000000031 * Incident Day^1*Species Name^1 + 0.000025498 * Incident Day^1*Species Quantity^1 + 0.000011637 * Incident Day^1*Flight Impact^1 + -0.000003254 * Incident Day^1*Fatalities^1 + -0.000062291 * Incident Day^1*Injuries^1 + -0.000096342 * Incident Day^1*Radome Strike^1 + 0.001278535 * Incident Day^1*Radome Damage^1 + -0.000092033 * Incident Day^1*Windshield Strike^1 + -0.000504531 * Incident Day^1*Windshield Damage^1 + -0.000109735 * Incident Day^1*Nose Strike^1 + -0.001063939 * Incident Day^1*Nose Damage^1 + 0.000028531 * Incident Day^1*Engine1 Strike^1 + 0.000536733 * Incident Day^1*Engine1 Damage^1 + 0.000085639 *

Incident Day^1*Engine2 Strike^1 + -0.000268793 * Incident Day^1*Engine2 Damage^1 + -0.001662856 * Incident Day^1*Engine3 Strike^1 + 0.001416444 * Incident Day^1*Engine3 Damage^1 + 0.001492547 * Incident Day^1*Engine4 Strike^1 + -0.001252082 * Incident Day^1*Engine4 Damage^1 + -0.000252307 * Incident Day^1*Engine Ingested^1 + 0.000052128 * Incident Day^1*Propeller Strike^1 + 0.000804364 * Incident Day^1*Propeller Damage^1 + -0.000036122 * Incident Day^1*Wing or Rotor Strike^1 + -0.000108830 * Incident Day^1*Wing or Rotor Damage^1 + -0.000028220 * Incident Day^1*Fuselage Strike^1 + -0.000991399 * Incident Day^1*Fuselage Damage^1 + -0.000034414 * Incident Day^1*Landing Gear Strike^1 + -0.000025527 * Incident Day^1*Landing Gear Damage^1 + 0.000442615 * Incident Day^1*Tail Strike^1 + -0.000393517 * Incident Day^1*Tail Damage^1 + -0.001142587 * Incident Day^1*Lights Strike^1 + 0.003514252 * Incident Day^1*Lights Damage^1 + 0.000094608 * Incident Day^1*Other Strike^1 + 0.000673107 * Incident Day^1*Other Damage^1 + 0.000000001 * Operator ID^2 + -0.000000008 * Operator ID^1*Operator^1 + 0.000000013 * Operator ID^1*Aircraft^1 + 0.000010048 * Operator ID^1*Aircraft Type^1 + -0.000000515 * Operator ID^1*Aircraft Make^1 + 0.000000042 * Operator ID^1*Aircraft Model^1 + 0.000011029 * Operator ID^1*Aircraft Mass^1 + 0.000000108 * Operator ID^1*Engine Make^1 + -0.000000129 * Operator ID^1*Engine Model^1 + -0.000017786 * Operator ID^1*Engines^1 + -0.000002318 * Operator ID^1*Engine Type^1 + 0.000005607 * Operator ID^1*Engine1 Position^1 + -0.000007814 * Operator ID^1*Engine2 Position^1 + -0.000006643 * Operator ID^1*Engine3 Position^1 + 0.000013532 * Operator ID^1*Engine4 Position^1 + -0.000000005 * Operator ID^1*Airport ID^1 + -0.000000002 * Operator ID^1*Airport^1 + -0.000000102 * Operator ID^1*State^1 + 0.000000369 * Operator ID^1*FAA Region^1 + 0.000001481 * Operator ID^1*Warning Issued^1 + 0.000000209 * Operator ID^1*Flight Phase^1 + 0.000001357 * Operator ID^1*Visibility^1 + -0.000001059 * Operator ID^1*Precipitation^1 + -0.000000007 * Operator ID^1*Height^1 + 0.000000011 * Operator ID^1*Speed^1 + 0.000000068 * Operator ID^1*Distance^1 + -0.000000024 * Operator ID^1*Species ID^1 + -0.000000008 * Operator ID^1*Species Name^1 + -0.000001300 * Operator ID^1*Species Quantity^1 + -0.000001623 * Operator ID^1*Flight Impact^1 + 0.004690882 * Operator ID^1*Fatalities^1 + 0.000198643 * Operator ID^1*Injuries^1 + -0.000007503 * Operator ID^1*Radome Strike^1 + -0.000042285 * Operator ID^1*Radome Damage^1 + -0.000005014 * Operator ID^1*Windshield Strike^1 + -0.000044768 * Operator ID^1*Windshield Damage^1 + -0.000002885 * Operator ID^1*Nose Strike^1 + 0.000002800 * Operator ID^1*Nose Damage^1 + -0.000007275 * Operator ID^1*Engine1 Strike^1 + -

0.000059065 * Operator ID^1*Engine1 Damage^1 + -0.000010634 * Operator ID^1*Engine2 Strike^1 + 0.000008486 * Operator ID^1*Engine2 Damage^1 + 0.000134003 * Operator ID^1*Engine3 Strike^1 + -0.000119507 * Operator ID^1*Engine3 Damage^1 + 0.000190748 * Operator ID^1*Engine4 Strike^1 + -0.000124774 * Operator ID^1*Engine4 Damage^1 + 0.000007415 * Operator ID^1*Engine Ingested^1 + -0.000005495 * Operator ID^1*Propeller Strike^1 + 0.000372155 * Operator ID^1*Propeller Damage^1 + -0.000006806 * Operator ID^1*Wing or Rotor Strike^1 + -0.000008834 * Operator ID^1*Wing or Rotor Damage^1 + -0.000007115 * Operator ID^1*Fuselage Strike^1 + 0.000065438 * Operator ID^1*Fuselage Damage^1 + -0.000002052 * Operator ID^1*Landing Gear Strike^1 + 0.000034934 * Operator ID^1*Landing Gear Damage^1 + -0.000060362 * Operator ID^1*Tail Strike^1 + 0.000010136 * Operator ID^1*Tail Damage^1 + 0.000005299 * Operator ID^1*Lights Strike^1 + -0.000005416 * Operator ID^1*Lights Damage^1 + -0.000005252 * Operator ID^1*Other Strike^1 + -0.000052471 * Operator ID^1*Other Damage^1 + -0.000000012 * Operator^2 + -0.000000002 * Operator^1*Aircraft^1 + -0.000009964 * Operator^1*Aircraft Type^1 + 0.000000457 * Operator^1*Aircraft Make^1 + -0.000000030 * Operator^1*Aircraft Model^1 + -0.000001735 * Operator^1*Aircraft Mass^1 + -0.000000151 * Operator^1*Engine Make^1 + 0.000000149 * Operator^1*Engine Model^1 + 0.000010625 * Operator^1*Engines^1 + -0.000001899 * Operator^1*Engine Type^1 + -0.000001408 * Operator^1*Engine1 Position^1 + 0.000000857 * Operator^1*Engine2 Position^1 + 0.000003680 * Operator^1*Engine3 Position^1 + -0.000006946 * Operator^1*Engine4 Position^1 + -0.000000002 * Operator^1*Airport ID^1 + -0.000000003 * Operator^1*Airport^1 + 0.000000159 * Operator^1*State^1 + 0.000000124 * Operator^1*FAA Region^1 + 0.000000916 * Operator^1*Warning Issued^1 + -0.000000160 * Operator^1*Flight Phase^1 + 0.000000280 * Operator^1*Visibility^1 + 0.000000409 * Operator^1*Precipitation^1 + -0.000000001 * Operator^1*Height^1 + -0.000000032 * Operator^1*Speed^1 + -0.000000044 * Operator^1*Distance^1 + 0.000000001 * Operator^1*Species ID^1 + 0.000000003 * Operator^1*Species Name^1 + 0.000005045 * Operator^1*Species Quantity^1 + 0.000002321 * Operator^1*Flight Impact^1 + -0.005554633 * Operator^1*Fatalities^1 + -0.000199371 * Operator^1*Injuries^1 + 0.000004974 * Operator^1*Radome Strike^1 + 0.000031953 * Operator^1*Radome Damage^1 + 0.000011414 * Operator^1*Windshield Strike^1 + 0.000053132 * Operator^1*Windshield Damage^1 + 0.000002507 * Operator^1*Nose Strike^1 + 0.000021104 * Operator^1*Nose Damage^1 + 0.000006276 * Operator^1*Engine1 Strike^1 + 0.000004263 * Operator^1*Engine1 Damage^1 + 0.000017949 * Operator^1*Engine2 Strike^1 + -0.000047767 * Operator^1*Engine2 Damage^1 + -0.000082572 * Operator^1*Engine3 Strike^1 + 0.000073411 * Operator^1*Engine3 Damage^1 + -0.000107878 * Operator^1*Engine4 Strike^1 + 0.000028003 * Operator^1*Engine4 Damage^1 + 0.000001567 * Operator^1*Engine Ingested^1 + 0.000008069 * Operator^1*Propeller Strike^1 + -0.000525608 * Operator^1*Propeller Damage^1 + 0.000006349 * Operator^1*Wing or Rotor Strike^1 + 0.000017568 * Operator^1*Wing or Rotor Damage^1 + 0.000012971 * Operator^1*Fuselage Strike^1 + -0.000128491 * Operator^1*Fuselage Damage^1 + 0.000007138 * Operator^1*Landing Gear Strike^1 + -0.000053690 * Operator^1*Landing Gear Damage^1 + 0.000016798 * Operator^1*Tail Strike^1 + 0.000123107 * Operator^1*Tail Damage^1 + -0.000083888 * Operator^1*Lights Strike^1 + 0.000075295 * Operator^1*Lights Damage^1 + 0.000006796 * Operator^1*Other Strike^1 + 0.000052188 * Operator^1*Other Damage^1 + 0.000000111 * Aircraft^2 + -0.000040072 * Aircraft^1*Aircraft Type^1 + -0.000000371 * Aircraft^1*Aircraft Make^1 + 0.000000000 * Aircraft^1*Aircraft Model^1 + -0.000033739 * Aircraft^1*Aircraft

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Strike^1 + -0.000246222 * Aircraft Type^1*Nose Damage^1 + 0.031122724 * Aircraft Type^1*Engine1 Strike^1 + -0.014622025 * Aircraft Type^1*Engine1 Damage^1 + 0.019386737 * Aircraft Type^1*Engine2 Strike^1 + -0.044323310 * Aircraft Type^1*Engine2 Damage^1 + 0.012378159 * Aircraft Type^1*Engine3 Strike^1 + 0.027629351 * Aircraft Type^1*Engine3 Damage^1 + -0.026626092 * Aircraft Type^1*Engine4 Strike^1 + -0.000000024 * Aircraft Type^1*Engine4 Damage^1 + -0.017882700 * Aircraft Type^1*Engine Ingested^1 + 0.000481631 * Aircraft Type^1*Propeller Strike^1 + -0.073601484 * Aircraft Type^1*Propeller Damage^1 + 0.010812259 * Aircraft Type^1*Wing or Rotor Strike^1 + -0.019842471 * Aircraft Type^1*Wing or Rotor Damage^1 + -0.004463115 * Aircraft Type^1*Fuselage Strike^1 + 0.055487572 * Aircraft Type^1*Fuselage Damage^1 + 0.006356939 * Aircraft Type^1*Landing Gear Strike^1 + -0.067744951 * Aircraft Type^1*Landing Gear Damage^1 + 0.017631621 * Aircraft Type^1*Tail Strike^1 + -0.075698008 * Aircraft Type^1*Tail Damage^1 + -0.029246403 * Aircraft Type^1*Lights Strike^1 + 0.030326955 * Aircraft Type^1*Lights Damage^1 + 0.002230838 * Aircraft Type^1*Other Strike^1 + 0.005622268 * Aircraft Type^1*Other Damage^1 + -0.000002132 * Aircraft Make^2 + 0.000000493 * Aircraft Make^1*Aircraft Model^1 + 0.000196032 * Aircraft Make^1*Aircraft Mass^1 + -0.000001404 * Aircraft Make^1*Engine Make^1 + 0.000001042 * Aircraft Make^1*Engine Model^1 + -0.000021545 * Aircraft Make^1*Engines^1 + -0.000044772 * Aircraft Make^1*Engine Type^1 + -0.000030093 * Aircraft Make^1*Engine1 Position^1 + 0.000103893 * Aircraft Make^1*Engine2 Position^1 + 0.000025929 * Aircraft Make^1*Engine3 Position^1 + -0.000058638 * Aircraft Make^1*Engine4 Position^1 + -0.000000023 * Aircraft Make^1*Airport ID^1 + 0.000000019 * Aircraft Make^1*Airport^1 + 0.000001636 * Aircraft Make^1*State^1 + 0.000015306 * Aircraft Make^1*FAA Region^1 + -0.000010779 * Aircraft Make^1*Warning Issued^1 + -0.000005934 * Aircraft Make^1*Flight Phase^1 + 0.000009576 * Aircraft Make^1*Visibility^1 + -0.000017878 * Aircraft Make^1*Precipitation^1 + -0.000000142 * Aircraft Make^1*Height^1 + 0.000000527 * Aircraft Make^1*Speed^1 + 0.000000866 * Aircraft Make^1*Distance^1 + -0.000000387 * Aircraft Make^1*Species ID^1 + -0.000000257 * Aircraft Make^1*Species Name^1 + -0.000031679 * Aircraft Make^1*Species Quantity^1 + -0.000052528 * Aircraft Make^1*Flight Impact^1 + 0.000069807 * Aircraft Make^1*Fatalities^1 + 0.000317701 * Aircraft Make^1*Injuries^1 + -0.000042854 * Aircraft Make^1*Radome Strike^1 + -0.000203657 * Aircraft Make^1*Radome Damage^1 + 0.000015168 * Aircraft Make^1*Windshield Strike^1 + -0.000534601 * Aircraft Make^1*Windshield Damage^1 + 0.000055467 * Aircraft Make^1*Nose Strike^1 + 0.000593929 * Aircraft Make^1*Nose Damage^1 + 0.000131319 * Aircraft Make^1*Engine1 Strike^1 + -0.000187539 * Aircraft Make^1*Engine1 Damage^1 + 0.000379970 * Aircraft Make^1*Engine2 Strike^1 + -0.000474221 * Aircraft Make^1*Engine2 Damage^1 + 0.000783558 * Aircraft Make^1*Engine3 Strike^1 + -0.001164895 * Aircraft Make^1*Engine3 Damage^1 + 0.000297987 * Aircraft Make^1*Engine4 Strike^1 + -0.000091214 * Aircraft Make^1*Engine4 Damage^1 + -0.000238450 * Aircraft Make^1*Engine Ingested^1 + 0.000002751 * Aircraft Make^1*Propeller Strike^1 + -0.003231040 * Aircraft Make^1*Propeller Damage^1 + -0.000018401 * Aircraft Make^1*Wing or Rotor Strike^1 + 0.000019606 * Aircraft Make^1*Wing or Rotor Damage^1 + 0.000045711 * Aircraft Make^1*Fuselage Strike^1 + -0.001098765 * Aircraft Make^1*Fuselage Damage^1 + -0.000028644 * Aircraft Make^1*Landing Gear Strike^1 + 0.000159731 * Aircraft Make^1*Landing Gear Damage^1 + -0.000128463 * Aircraft Make^1*Tail Strike^1 + -0.002782681 * Aircraft Make^1*Tail Damage^1 + -0.000413687 * Aircraft Make^1*Lights

Strike^1 + -0.000507229 * Aircraft Make^1*Lights Damage^1 + -0.000006869 * Aircraft Make^1*Other Strike^1 + -0.000069923 * Aircraft Make^1*Other Damage^1 + -0.000000080 * Aircraft Model^2 + -0.000053612 * Aircraft Model^1*Aircraft Mass^1 + 0.000000649 * Aircraft Model^1*Engine Make^1 + 0.000000225 * Aircraft Model^1*Engine Model^1 + 0.000004113 * Aircraft Model^1*Engines^1 + 0.000007969 * Aircraft Model^1*Engine Type^1 + 0.000004033 * Aircraft Model^1*Engine1 Position^1 + -0.000018969 * Aircraft Model^1*Engine2 Position^1 + -0.000012473 * Aircraft Model^1*Engine3 Position^1 + -0.000005303 * Aircraft Model^1*Engine4 Position^1 + -0.000000029 * Aircraft Model^1*Airport ID^1 + -0.000000009 * Aircraft Model^1*Airport^1 + 0.000000709 * Aircraft Model^1*State^1 + 0.000000789 * Aircraft Model^1*FAA Region^1 + -0.000004964 * Aircraft Model^1*Warning Issued^1 + 0.000003708 * Aircraft Model^1*Flight Phase^1 + 0.000006633 * Aircraft Model^1*Visibility^1 + 0.000007319 * Aircraft Model^1*Precipitation^1 + -0.000000036 * Aircraft Model^1*Height^1 + -0.000000069 * Aircraft Model^1*Speed^1 + 0.000000002 * Aircraft Model^1*Distance^1 + -0.000000117 * Aircraft Model^1*Species ID^1 + 0.000000054 * Aircraft Model^1*Species Name^1 + 0.000000540 * Aircraft Model^1*Species Quantity^1 + -0.000008636 * Aircraft Model^1*Flight Impact^1 + 0.000004429 * Aircraft Model^1*Fatalities^1 + 0.000044562 * Aircraft Model^1*Injuries^1 + -0.000001385 * Aircraft Model^1*Radome Strike^1 + 0.000266253 * Aircraft Model^1*Radome Damage^1 + -0.000006808 * Aircraft Model^1*Windshield Strike^1 + -0.000116159 * Aircraft Model^1*Windshield Damage^1 + 0.000001013 * Aircraft Model^1*Nose Strike^1 + -0.000039705 * Aircraft Model^1*Nose Damage^1 + -0.000033325 * Aircraft Model^1*Engine1 Strike^1 + -0.000426396 * Aircraft Model^1*Engine1 Damage^1 + 0.000003704 * Aircraft Model^1*Engine2 Strike^1 + -0.000157295 * Aircraft Model^1*Engine2 Damage^1 + 0.000255584 * Aircraft Model^1*Engine3 Strike^1 + -0.000402810 * Aircraft Model^1*Engine3 Damage^1 + 0.000601937 * Aircraft Model^1*Engine4 Strike^1 + -0.000843888 * Aircraft Model^1*Engine4 Damage^1 + 0.000170307 * Aircraft Model^1*Engine Ingested^1 + -0.000085749 * Aircraft Model^1*Propeller Strike^1 + 0.000425279 * Aircraft Model^1*Propeller Damage^1 + 0.000006535 * Aircraft Model^1*Wing or Rotor Strike^1 + -0.000037867 * Aircraft Model^1*Wing or Rotor Damage^1 + 0.000013614 * Aircraft Model^1*Fuselage Strike^1 + -0.000335397 * Aircraft Model^1*Fuselage Damage^1 + -0.000020082 * Aircraft Model^1*Landing Gear Strike^1 + -0.000163594 * Aircraft Model^1*Landing Gear Damage^1 + 0.000133064 * Aircraft Model^1*Tail Strike^1 + 0.000244020 * Aircraft Model^1*Tail Damage^1 + -0.000599009 * Aircraft Model^1*Lights Strike^1 + 0.001074514 * Aircraft Model^1*Lights Damage^1 + -0.000006579 * Aircraft Model^1*Other Strike^1 + 0.000150476 * Aircraft Model^1*Other Damage^1 + 0.000069062 * Aircraft Mass^2 + 0.000017423 * Aircraft Mass^1*Engine Make^1 + -0.000037112 * Aircraft Mass^1*Engine Model^1 + -0.002206150 * Aircraft Mass^1*Engines^1 + 0.000263985 * Aircraft Mass^1*Engine Type^1 + 0.001572253 * Aircraft Mass^1*Engine1 Position^1 + -0.002425564 * Aircraft Mass^1*Engine2 Position^1 + 0.003194689 * Aircraft Mass^1*Engine3 Position^1 + -0.009451701 * Aircraft Mass^1*Engine4 Position^1 + -0.000001686 * Aircraft Mass^1*Airport ID^1 + 0.000000149 * Aircraft Mass^1*Airport^1 + 0.000023875 * Aircraft Mass^1*State^1 + 0.000218118 * Aircraft Mass^1*FAA Region^1 + -0.000349106 * Aircraft Mass^1*Warning Issued^1 + -0.000298796 * Aircraft Mass^1*Flight Phase^1 + -0.000616826 * Aircraft Mass^1*Visibility^1 + 0.000587539 * Aircraft Mass^1*Precipitation^1 + 0.000003802 * Aircraft Mass^1*Height^1 + 0.000013668 * Aircraft Mass^1*Speed^1 + -0.000040565 * Aircraft Mass^1*Distance^1 + 0.000005932 * Aircraft Mass^1*Species ID^1 + 0.000000474 *

Aircraft Mass^1*Species Name^1 + -0.000990234 * Aircraft Mass^1*Species Quantity^1 + -0.000788490 * Aircraft Mass^1*Flight Impact^1 + -0.048639813 * Aircraft Mass^1*Fatalities^1 + 0.000866638 * Aircraft Mass^1*Injuries^1 + 0.004267195 * Aircraft Mass^1*Radome Strike^1 + -0.001025026 * Aircraft Mass^1*Radome Damage^1 + 0.004382369 * Aircraft Mass^1*Windshield Strike^1 + 0.007260915 * Aircraft Mass^1*Windshield Damage^1 + 0.001903672 * Aircraft Mass^1*Nose Strike^1 + 0.003657564 * Aircraft Mass^1*Nose Damage^1 + -0.004543816 * Aircraft Mass^1*Engine1 Strike^1 + 0.019298689 * Aircraft Mass^1*Engine1 Damage^1 + 0.005566184 * Aircraft Mass^1*Engine2 Strike^1 + 0.005522608 * Aircraft Mass^1*Engine2 Damage^1 + -0.014097977 * Aircraft Mass^1*Engine3 Strike^1 + 0.022599240 * Aircraft Mass^1*Engine3 Damage^1 + 0.015570338 * Aircraft Mass^1*Engine4 Strike^1 + -0.021344516 * Aircraft Mass^1*Engine4 Damage^1 + -0.001477874 * Aircraft Mass^1*Engine Ingested^1 + -0.006570538 * Aircraft Mass^1*Propeller Strike^1 + -0.007646724 * Aircraft Mass^1*Propeller Damage^1 + 0.007381945 * Aircraft Mass^1*Wing or Rotor Strike^1 + -0.004852286 * Aircraft Mass^1*Wing or Rotor Damage^1 + 0.000772695 * Aircraft Mass^1*Fuselage Strike^1 + 0.109040842 * Aircraft Mass^1*Fuselage Damage^1 + 0.004266161 * Aircraft Mass^1*Landing Gear Strike^1 + -0.013331929 * Aircraft Mass^1*Landing Gear Damage^1 + -0.000058620 * Aircraft Mass^1*Tail Strike^1 + 0.035528969 * Aircraft Mass^1*Tail Damage^1 + -0.029708325 * Aircraft Mass^1*Lights Strike^1 + 0.058113453 * Aircraft Mass^1*Lights Damage^1 + 0.005844626 * Aircraft Mass^1*Other Strike^1 + 0.005145242 * Aircraft Mass^1*Other Damage^1 + -0.000003137 * Engine Make^2 + -0.000000802 * Engine Make^1*Engine Model^1 + 0.000415479 * Engine Make^1*Engines^1 + -0.000129493 * Engine Make^1*Engine Type^1 + 0.000030411 * Engine Make^1*Engine1 Position^1 + -0.000002690 * Engine Make^1*Engine2 Position^1 + 0.000015768 * Engine Make^1*Engine3 Position^1 + 0.000190110 * Engine Make^1*Engine4 Position^1 + -0.000000080 * Engine Make^1*Airport ID^1 + 0.000000020 * Engine Make^1*Airport^1 + -0.000000970 * Engine Make^1*State^1 + 0.000007647 * Engine Make^1*FAA Region^1 + -0.000050268 * Engine Make^1*Warning Issued^1 + -0.000003738 * Engine Make^1*Flight Phase^1 + -0.000017495 * Engine Make^1*Visibility^1 + 0.000000768 * Engine Make^1*Precipitation^1 + 0.000000039 * Engine Make^1*Height^1 + 0.000000419 * Engine Make^1*Speed^1 + 0.000000708 * Engine Make^1*Distance^1 + 0.000000295 * Engine Make^1*Species ID^1 + -0.000000166 * Engine Make^1*Species Name^1 + -0.000019884 * Engine Make^1*Species Quantity^1 + 0.000029308 * Engine Make^1*Flight Impact^1 + 0.001848911 * Engine Make^1*Fatalities^1 + 0.000381407 * Engine Make^1*Injuries^1 + 0.000034060 * Engine Make^1*Radome Strike^1 + 0.000507952 * Engine Make^1*Radome Damage^1 + 0.000137715 * Engine Make^1*Windshield Strike^1 + 0.000632786 * Engine Make^1*Windshield Damage^1 + 0.000097414 * Engine Make^1*Nose Strike^1 + -0.000575141 * Engine Make^1*Nose Damage^1 + 0.000313547 * Engine Make^1*Engine1 Strike^1 + -0.000181983 * Engine Make^1*Engine1 Damage^1 + 0.000216288 * Engine Make^1*Engine2 Strike^1 + 0.001192566 * Engine Make^1*Engine2 Damage^1 + 0.000723568 * Engine Make^1*Engine3 Strike^1 + -0.001199995 * Engine Make^1*Engine3 Damage^1 + 0.000557682 * Engine Make^1*Engine4 Strike^1 + 0.000614401 * Engine Make^1*Engine4 Damage^1 + -0.000237973 * Engine Make^1*Engine Ingested^1 + -0.000364409 * Engine Make^1*Propeller Strike^1 + 0.003149487 * Engine Make^1*Propeller Damage^1 + 0.000177186 * Engine Make^1*Wing or Rotor Strike^1 + -0.000433092 * Engine Make^1*Wing or Rotor Damage^1 + 0.000138493 * Engine Make^1*Fuselage Strike^1 + 0.000145985 * Engine Make^1*Fuselage

Damage^1 + 0.000140168 * Engine Make^1*Landing Gear Strike^1 + -0.003419867 * Engine Make^1*Landing Gear Damage^1 + 0.000200721 * Engine Make^1*Tail Strike^1 + -0.003318996 * Engine Make^1*Tail Damage^1 + 0.000933090 * Engine Make^1*Lights Strike^1 + -0.001305740 * Engine Make^1*Lights Damage^1 + 0.000102711 * Engine Make^1*Other Strike^1 + 0.000242154 * Engine Make^1*Other Damage^1 + -0.000000560 * Engine Model^2 + 0.000037096 * Engine Model^1*Engines^1 + 0.000023404 * Engine Model^1*Engine Type^1 + -0.000014694 * Engine Model^1*Engine1 Position^1 + 0.000023069 * Engine Model^1*Engine2 Position^1 + 0.000042167 * Engine Model^1*Engine3 Position^1 + -0.000051805 * Engine Model^1*Engine4 Position^1 + -0.000000009 * Engine Model^1*Airport ID^1 + 0.000000022 * Engine Model^1*Airport^1 + 0.000000299 * Engine Model^1*State^1 + 0.000004334 * Engine Model^1*FAA Region^1 + 0.000008173 * Engine Model^1*Warning Issued^1 + -0.000003566 * Engine Model^1*FlightPhase^1 + 0.000005753 * Engine Model^1*Visibility^1 + -0.000006024 * Engine Model^1*Precipitation^1 + -0.000000039 * Engine Model^1*Height^1 + 0.000000092 * Engine Model^1*Speed^1 + -0.000000026 * Engine Model^1*Distance^1 + -0.000000056 * Engine Model^1*Species ID^1 + -0.000000068 * Engine Model^1*Species Name^1 + 0.000003806 * Engine Model^1*Species Quantity^1 + 0.000000192 * Engine Model^1*Flight Impact^1 + 0.003710987 * Engine Model^1*Fatalities^1 + -0.000106256 * Engine Model^1*Injuries^1 + -0.000047257 * Engine Model^1*Radome Strike^1 + -0.000145793 * Engine Model^1*Radome Damage^1 + -0.000025474 * Engine Model^1*Windshield Strike^1 + -0.000337017 * Engine Model^1*Windshield Damage^1 + -0.000020056 * Engine Model^1*Nose Strike^1 + 0.000365170 * Engine Model^1*Nose Damage^1 + -0.000090910 * Engine Model^1*Engine1 Strike^1 + -0.000188376 * Engine Model^1*Engine1 Damage^1 + -0.000091128 * Engine Model^1*Engine2 Strike^1 + -0.000390203 * Engine Model^1*Engine2 Damage^1 + -0.000210722 * Engine Model^1*Engine3 Strike^1 + 0.000133849 * Engine Model^1*Engine3 Damage^1 + -0.000304750 * Engine Model^1*Engine4 Strike^1 + 0.000261672 * Engine Model^1*Engine4 Damage^1 + 0.000054937 * Engine Model^1*Engine Ingested^1 + 0.000089899 * Engine Model^1*Propeller Strike^1 + -0.000192527 * Engine Model^1*Propeller Damage^1 + -0.000049820 * Engine Model^1*Wing or Rotor Strike^1 + 0.000119781 * Engine Model^1*Wing or Rotor Damage^1 + -0.000020519 * Engine Model^1*Fuselage Strike^1 + -0.000699345 * Engine Model^1*Fuselage Damage^1 + -0.000039515 * Engine Model^1*Landing Gear Strike^1 + 0.000344078 * Engine Model^1*Landing Gear Damage^1 + 0.000411192 * Engine Model^1*Tail Strike^1 + 0.000948957 * Engine Model^1*Tail Damage^1 + 0.000282071 * Engine Model^1*Lights Strike^1 + -0.001193761 * Engine Model^1*Lights Damage^1 + -0.000035731 * Engine Model^1*Other Strike^1 + -0.000076365 * Engine Model^1*Other Damage^1 + 0.003631145 * Engines^2 + 0.000516429 * Engines^1*Engine Type^1 + -0.003074732 * Engines^1*Engine1 Position^1 + 0.003610252 * Engines^1*Engine2 Position^1 + 0.001957274 * Engines^1*Engine3 Position^1 + -0.209044803 * Engines^1*Engine4 Position^1 + 0.000002435 * Engines^1*Airport ID^1 + 0.000000661 * Engines^1*Airport^1 + -0.000016901 * Engines^1*State^1 + -0.000090263 * Engines^1*FAA Region^1 + -0.001515014 * Engines^1*Warning Issued^1 + 0.000141666 * Engines^1*Flight Phase^1 + 0.000534733 * Engines^1*Visibility^1 + -0.000272028 * Engines^1*Precipitation^1 + -0.000000738 * Engines^1*Height^1 + 0.000011070 * Engines^1*Speed^1 + 0.000032276 * Engines^1*Distance^1 + -0.000017389 * Engines^1*Species ID^1 + -0.000003513 *

Engines^1*Species Name^1 + 0.000829689 * Engines^1*Species Quantity^1 + 0.001425623 *
Engines^1*Flight Impact^1 + 0.134160779 * Engines^1*Fatalities^1 + 0.005177058 *
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0.000668938 * Engines^1*Windshield Damage^1 + 0.004658985 * Engines^1*Nose Strike^1 +
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-0.302962879 * Engines^1*Engine4 Damage^1 + 0.019875615 * Engines^1*Engine Ingested^1
+ 0.011180589 * Engines^1*Propeller Strike^1 + 0.062184867 * Engines^1*Propeller
Damage^1 + -0.009422808 * Engines^1*Wing or Rotor Strike^1 + 0.018293851 *
Engines^1*Wing or Rotor Damage^1 + -0.000112919 * Engines^1*Fuselage Strike^1 + -
0.025032179 * Engines^1*Fuselage Damage^1 + -0.011091683 * Engines^1*Landing Gear
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Engines^1*Tail Strike^1 + 0.011515120 * Engines^1*Tail Damage^1 + 0.033317912 *
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Engines^1*Other Strike^1 + -0.024202415 * Engines^1*Other Damage^1 + 0.000437106 *
Engine Type^2 + 0.000293588 * Engine Type^1*Engine1 Position^1 + 0.000124250 * Engine
Type^1*Engine2 Position^1 + -0.007716922 * Engine Type^1*Engine3 Position^1 +
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* Engine Type^1*Flight Impact^1 + -0.074469834 * Engine Type^1*Fatalities^1 + -
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* Engine Type^1*Propeller Damage^1 + -0.000650479 * Engine Type^1*Wing or Rotor
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0.002059211 * Engine Type^1*Landing Gear Strike^1 + 0.014860549 * Engine
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Strike^1 + -0.010807543 * Engine Type^1*Lights Damage^1 + 0.001564497 * Engine

Type^1*Other Strike^1 + 0.006444427 * Engine Type^1*Other Damage^1 + -0.000010746 * Engine1 Position^2 + 0.000720539 * Engine1 Position^1*Engine2 Position^1 + -0.000077225 * Engine1 Position^1*Engine3 Position^1 + -0.002573167 * Engine1 Position^1*Engine4 Position^1 + -0.000000314 * Engine1 Position^1*Airport ID^1 + 0.000000414 * Engine1 Position^1*Airport^1 + 0.000001279 * Engine1 Position^1*State^1 + 0.000181408 * Engine1 Position^1*FAA Region^1 + 0.000927419 * Engine1 Position^1*Warning Issued^1 + -0.000121082 * Engine1 Position^1*Flight Phase^1 + 0.000051543 * Engine1 Position^1*Visibility^1 + -0.000157248 * Engine1 Position^1*Precipitation^1 + -0.000001513 * Engine1 Position^1*Height^1 + -0.000011529 * Engine1 Position^1*Speed^1 + -0.000010724 * Engine1 Position^1*Distance^1 + -0.000003391 * Engine1 Position^1*Species ID^1 + 0.000002025 * Engine1 Position^1*Species Name^1 + 0.000679704 * Engine1 Position^1*Species Quantity^1 + -0.000777351 * Engine1 Position^1*Flight Impact^1 + -0.062429086 * Engine1 Position^1*Fatalities^1 + -0.002139418 * Engine1 Position^1*Injuries^1 + -0.002051646 * Engine1 Position^1*Radome Strike^1 + -0.004130881 * Engine1 Position^1*Radome Damage^1 + -0.000299702 * Engine1 Position^1*Windshield Strike^1 + -0.005496318 * Engine1 Position^1*Windshield Damage^1 + -0.002472510 * Engine1 Position^1*Nose Strike^1 + 0.006816368 * Engine1 Position^1*Nose Damage^1 + -0.001454713 * Engine1 Position^1*Engine1 Strike^1 + 0.003517865 * Engine1 Position^1*Engine1 Damage^1 + -0.002158571 * Engine1 Position^1*Engine2 Strike^1 + 0.004111835 * Engine1 Position^1*Engine2 Damage^1 + -0.002095411 * Engine1 Position^1*Engine3 Strike^1 + 0.005407558 * Engine1 Position^1*Engine3 Damage^1 + 0.020297632 * Engine1 Position^1*Engine4 Strike^1 + -0.023274522 * Engine1 Position^1*Engine4 Damage^1 + -0.005418970 * Engine1 Position^1*Engine Ingested^1 + 0.000228191 * Engine1 Position^1*Propeller Strike^1 + -0.056879206 * Engine1 Position^1*Propeller Damage^1 + 0.001399393 * Engine1 Position^1*Wing or Rotor Strike^1 + 0.003247010 * Engine1 Position^1*Wing or Rotor Damage^1 + -0.000942768 * Engine1 Position^1*Fuselage Strike^1 + -0.004250749 * Engine1 Position^1*Fuselage Damage^1 + -0.001192780 * Engine1 Position^1*Landing Gear Strike^1 + -0.009945213 * Engine1 Position^1*Landing Gear Damage^1 + -0.011937062 * Engine1 Position^1*Tail Strike^1 + 0.013613461 * Engine1 Position^1*Tail Damage^1 + -0.033536344 * Engine1 Position^1*Lights Strike^1 + 0.026194265 * Engine1 Position^1*Lights Damage^1 + -0.000301841 * Engine1 Position^1*Other Strike^1 + 0.008820081 * Engine1 Position^1*Other Damage^1 + -0.001293029 * Engine2 Position^2 + 0.004811360 * Engine2 Position^1*Engine3 Position^1 + -0.014377213 * Engine2 Position^1*Engine4 Position^1 + -0.000000339 * Engine2 Position^1*Airport ID^1 + -0.000000379 * Engine2 Position^1*Airport^1 + 0.000005009 * Engine2 Position^1*State^1 + -0.000232740 * Engine2 Position^1*FAA Region^1 + -0.002152243 * Engine2 Position^1*Warning Issued^1 + 0.000192755 * Engine2 Position^1*Flight Phase^1 + -0.000134734 * Engine2 Position^1*Visibility^1 + 0.000418825 * Engine2 Position^1*Precipitation^1 + 0.000004717 * Engine2 Position^1*Height^1 + 0.000025856 * Engine2 Position^1*Speed^1 + 0.000009089 * Engine2 Position^1*Distance^1 + 0.000001074 * Engine2 Position^1*Species ID^1 + -0.000005081 * Engine2 Position^1*Species Name^1 + -0.000611380 * Engine2 Position^1*Species Quantity^1 + 0.001415907 * Engine2 Position^1*Flight Impact^1 + 0.144372521 * Engine2 Position^1*Fatalities^1 + 0.002118343 * Engine2 Position^1*Injuries^1 + 0.005480644 * Engine2 Position^1*Radome Strike^1 + 0.011280464 * Engine2 Position^1*Radome Damage^1 + 0.001365281 * Engine2 Position^1*Windshield Strike^1 + 0.004848756 * Engine2 Position^1*Windshield Damage^1 +

0.005418760 * Engine2 Position^1*Nose Strike^1 + -0.022195031 * Engine2 Position^1*Nose Damage^1 + -0.000705245 * Engine2 Position^1*Engine1 Strike^1 + -0.009992558 * Engine2 Position^1*Engine1 Damage^1 + 0.008410297 * Engine2 Position^1*Engine2 Strike^1 + -0.020116326 * Engine2 Position^1*Engine2 Damage^1 + 0.012790155 * Engine2 Position^1*Engine3 Strike^1 + -0.020635988 * Engine2 Position^1*Engine3 Damage^1 + 0.003987561 * Engine2 Position^1*Engine4 Strike^1 + -0.001466102 * Engine2 Position^1*Engine4 Damage^1 + 0.014868737 * Engine2 Position^1*Engine Ingested^1 + -0.002553392 * Engine2 Position^1*Propeller Strike^1 + 0.118290496 * Engine2 Position^1*Propeller Damage^1 + -0.002933459 * Engine2 Position^1*Wing or Rotor Strike^1 + -0.002033799 * Engine2 Position^1*Wing or Rotor Damage^1 + 0.002478892 * Engine2 Position^1*Fuselage Strike^1 + 0.017349279 * Engine2 Position^1*Fuselage Damage^1 + 0.002832260 * Engine2 Position^1*Landing Gear Strike^1 + 0.019622159 * Engine2 Position^1*Landing Gear Damage^1 + 0.016341389 * Engine2 Position^1*Tail Strike^1 + -0.011991735 * Engine2 Position^1*Tail Damage^1 + 0.073350273 * Engine2 Position^1*Lights Strike^1 + -0.058162492 * Engine2 Position^1*Lights Damage^1 + 0.000909937 * Engine2 Position^1*Other Strike^1 + -0.014551703 * Engine2 Position^1*Other Damage^1 + 0.000089381 * Engine3 Position^2 + -0.004452315 * Engine3 Position^1*Engine4 Position^1 + 0.000000357 * Engine3 Position^1*Airport ID^1 + 0.000000143 * Engine3 Position^1*Airport^1 + 0.000009908 * Engine3 Position^1*State^1 + -0.000149533 * Engine3 Position^1*FAA Region^1 + -0.001342564 * Engine3 Position^1*Warning Issued^1 + 0.000150612 * Engine3 Position^1*Flight Phase^1 + -0.000005894 * Engine3 Position^1*Visibility^1 + 0.000048453 * Engine3 Position^1*Precipitation^1 + 0.000002854 * Engine3 Position^1*Height^1 + 0.000017219 * Engine3 Position^1*Speed^1 + 0.000013909 * Engine3 Position^1*Distance^1 + -0.000002345 * Engine3 Position^1*Species ID^1 + -0.000004103 * Engine3 Position^1*Species Name^1 + -0.000584811 * Engine3 Position^1*Species Quantity^1 + 0.000862540 * Engine3 Position^1*Flight Impact^1 + 0.078918024 * Engine3 Position^1*Fatalities^1 + 0.003592421 * Engine3 Position^1*Injuries^1 + 0.002012571 * Engine3 Position^1*Radome Strike^1 + 0.011551959 * Engine3 Position^1*Radome Damage^1 + -0.000667614 * Engine3 Position^1*Windshield Strike^1 + 0.011071543 * Engine3 Position^1*Windshield Damage^1 + 0.003172571 * Engine3 Position^1*Nose Strike^1 + -0.029993617 * Engine3 Position^1*Nose Damage^1 + -0.000530376 * Engine3 Position^1*Engine1 Strike^1 + -0.001874497 * Engine3 Position^1*Engine1 Damage^1 + -0.003426687 * Engine3 Position^1*Engine2 Strike^1 + -0.001890331 * Engine3 Position^1*Engine2 Damage^1 + -0.002238517 * Engine3 Position^1*Engine3 Strike^1 + -0.005069208 * Engine3 Position^1*Engine3 Damage^1 + -0.056791235 * Engine3 Position^1*Engine4 Strike^1 + 0.055738753 * Engine3 Position^1*Engine4 Damage^1 + 0.008552852 * Engine3 Position^1*Engine Ingested^1 + -0.012531934 * Engine3 Position^1*Propeller Strike^1 + 0.063456377 * Engine3 Position^1*Propeller Damage^1 + -0.004004021 * Engine3 Position^1*Wing or Rotor Strike^1 + -0.005536551 * Engine3 Position^1*Wing or Rotor Damage^1 + 0.000785089 * Engine3 Position^1*Fuselage Strike^1 + -0.004865404 * Engine3 Position^1*Fuselage Damage^1 + -0.001481521 * Engine3 Position^1*Landing Gear Strike^1 + 0.011675961 * Engine3 Position^1*Landing Gear Damage^1 + 0.011400675 * Engine3 Position^1*Tail Strike^1 + -0.021950341 * Engine3 Position^1*Tail Damage^1 + 0.033251254 * Engine3 Position^1*Lights Strike^1 + -0.020240797 * Engine3 Position^1*Lights Damage^1 + -0.001914442 * Engine3 Position^1*Other Strike^1 + -0.016846933 * Engine3 Position^1*Other Damage^1 +

0.021756449 * Engine4 Position^2 + -0.000001131 * Engine4 Position^1*Airport ID^1 +
0.000001211 * Engine4 Position^1*Airport^1 + 0.000030124 * Engine4 Position^1*State^1 +
0.000305719 * Engine4 Position^1*FAA Region^1 + 0.001873755 * Engine4
Position^1*Warning Issued^1 + -0.000173548 * Engine4 Position^1*Flight Phase^1 +
0.000591983 * Engine4 Position^1*Visibility^1 + -0.000602088 * Engine4
Position^1*Precipitation^1 + -0.000013395 * Engine4 Position^1*Height^1 + -0.000011992 *
Engine4 Position^1*Speed^1 + 0.000003576 * Engine4 Position^1*Distance^1 + -0.000003901
* Engine4 Position^1*Species ID^1 + 0.000006392 * Engine4 Position^1*Species Name^1 +
0.000416907 * Engine4 Position^1*Species Quantity^1 + -0.001571206 * Engine4
Position^1*Flight Impact^1 + 0.003049246 * Engine4 Position^1*Fatalities^1 + 0.106632897 *
Engine4 Position^1*Injuries^1 + -0.002020761 * Engine4 Position^1*Radome Strike^1 + -
0.005978486 * Engine4 Position^1*Radome Damage^1 + 0.002722509 * Engine4
Position^1*Windshield Strike^1 + 0.031314792 * Engine4 Position^1*Windshield Damage^1 +
0.001072529 * Engine4 Position^1*Nose Strike^1 + 0.019578883 * Engine4 Position^1*Nose
Damage^1 + 0.001563735 * Engine4 Position^1*Engine1 Strike^1 + 0.012784293 * Engine4
Position^1*Engine1 Damage^1 + 0.000091578 * Engine4 Position^1*Engine2 Strike^1 +
0.020687082 * Engine4 Position^1*Engine2 Damage^1 + -0.010027494 * Engine4
Position^1*Engine3 Strike^1 + 0.010751361 * Engine4 Position^1*Engine3 Damage^1 + -
0.010930534 * Engine4 Position^1*Engine4 Strike^1 + 0.014467623 * Engine4
Position^1*Engine4 Damage^1 + -0.006985096 * Engine4 Position^1*Engine Ingested^1 +
0.041322364 * Engine4 Position^1*Propeller Strike^1 + -0.135126049 * Engine4
Position^1*Propeller Damage^1 + 0.003700500 * Engine4 Position^1*Wing or Rotor Strike^1 +
0.022139463 * Engine4 Position^1*Wing or Rotor Damage^1 + 0.000323451 * Engine4
Position^1*Fuselage Strike^1 + 0.047044837 * Engine4 Position^1*Fuselage Damage^1 + -
0.001503729 * Engine4 Position^1*Landing Gear Strike^1 + -0.028911773 * Engine4
Position^1*Landing Gear Damage^1 + -0.020215965 * Engine4 Position^1*Tail Strike^1 +
0.045196714 * Engine4 Position^1*Tail Damage^1 + -0.092447575 * Engine4
Position^1*Lights Strike^1 + 0.080783218 * Engine4 Position^1*Lights Damage^1 +
0.004228782 * Engine4 Position^1*Other Strike^1 + 0.019223749 * Engine4 Position^1*Other
Damage^1 + 0.000000001 * Airport ID^2 + 0.000000000 * Airport ID^1*Airport^1 + -
0.000000027 * Airport ID^1*State^1 + -0.0000000583 * Airport ID^1*FAA Region^1 +
0.000000075 * Airport ID^1*Warning Issued^1 + 0.000000071 * Airport ID^1*Flight Phase^1
+ 0.000000123 * Airport ID^1*Visibility^1 + 0.000000613 * Airport ID^1*Precipitation^1 +
0.000000002 * Airport ID^1*Height^1 + -0.000000013 * Airport ID^1*Speed^1 + -
0.000000006 * Airport ID^1*Distance^1 + -0.000000007 * Airport ID^1*Species ID^1 +
0.000000000 * Airport ID^1*Species Name^1 + 0.000002107 * Airport ID^1*Species
Quantity^1 + -0.000000166 * Airport ID^1*Flight Impact^1 + -0.000000724 * Airport
ID^1*Fatalities^1 + 0.000013558 * Airport ID^1*Injuries^1 + -0.000004255 * Airport
ID^1*Radome Strike^1 + -0.000027366 * Airport ID^1*Radome Damage^1 + -0.000005833 *
Airport ID^1*Windshield Strike^1 + -0.000030804 * Airport ID^1*Windshield Damage^1 + -
0.000006139 * Airport ID^1*Nose Strike^1 + 0.000013706 * Airport ID^1*Nose Damage^1 +
0.000009225 * Airport ID^1*Engine1 Strike^1 + -0.000015934 * Airport ID^1*Engine1
Damage^1 + -0.000017988 * Airport ID^1*Engine2 Strike^1 + -0.000019625 * Airport
ID^1*Engine2 Damage^1 + -0.000020397 * Airport ID^1*Engine3 Strike^1 + 0.000001159 *
Airport ID^1*Engine3 Damage^1 + -0.000050682 * Airport ID^1*Engine4 Strike^1 +
0.000042788 * Airport ID^1*Engine4 Damage^1 + 0.000011911 * Airport ID^1*Engine

Ingested^1 + 0.000004851 * Airport ID^1*Propeller Strike^1 + 0.000023748 * Airport ID^1*Propeller Damage^1 + -0.000003852 * Airport ID^1*Wing or Rotor Strike^1 + -0.000014223 * Airport ID^1*Wing or Rotor Damage^1 + -0.000007150 * Airport ID^1*Fuselage Strike^1 + -0.000036814 * Airport ID^1*Fuselage Damage^1 + -0.000007634 * Airport ID^1*Landing Gear Strike^1 + -0.000015105 * Airport ID^1*Landing Gear Damage^1 + 0.000000008 * Airport ID^1*Tail Strike^1 + -0.000036194 * Airport ID^1*Tail Damage^1 + 0.000017942 * Airport ID^1*Lights Strike^1 + -0.000055377 * Airport ID^1*Lights Damage^1 + -0.000007185 * Airport ID^1*Other Strike^1 + -0.000012804 * Airport ID^1*Other Damage^1 + -0.000000000 * Airport^2 + 0.000000003 * Airport^1*State^1 + 0.000000381 * Airport^1*FAA Region^1 + -0.000000424 * Airport^1*Warning Issued^1 + -0.000000214 * Airport^1*Flight Phase^1 + -0.000000088 * Airport^1*Visibility^1 + -0.000000052 * Airport^1*Precipitation^1 + -0.000000002 * Airport^1*Height^1 + 0.000000002 * Airport^1*Speed^1 + -0.000000008 * Airport^1*Distance^1 + 0.000000000 * Airport^1*Species ID^1 + -0.000000000 * Airport^1*Species Name^1 + -0.000002339 * Airport^1*Species Quantity^1 + 0.000000355 * Airport^1*Flight Impact^1 + 0.000000085 * Airport^1*Fatalities^1 + 0.000007154 * Airport^1*Injuries^1 + 0.000000683 * Airport^1*Radome Strike^1 + 0.000012777 * Airport^1*Radome Damage^1 + 0.000000547 * Airport^1*Windshield Strike^1 + -0.000008293 * Airport^1*Windshield Damage^1 + 0.000000392 * Airport^1*Nose Strike^1 + -0.000028187 * Airport^1*Nose Damage^1 + 0.000001872 * Airport^1*Engine1 Strike^1 + 0.000003125 * Airport^1*Engine1 Damage^1 + 0.000005761 * Airport^1*Engine2 Strike^1 + 0.000015999 * Airport^1*Engine2 Damage^1 + -0.000037986 * Airport^1*Engine3 Strike^1 + 0.000042344 * Airport^1*Engine3 Damage^1 + 0.000009491 * Airport^1*Engine4 Strike^1 + -0.000010139 * Airport^1*Engine4 Damage^1 + -0.000003570 * Airport^1*Engine Ingested^1 + 0.000000755 * Airport^1*Propeller Strike^1 + -0.000036326 * Airport^1*Propeller Damage^1 + -0.000000894 * Airport^1*Wing or Rotor Strike^1 + 0.000001679 * Airport^1*Wing or Rotor Damage^1 + 0.000000790 * Airport^1*Fuselage Strike^1 + -0.000001531 * Airport^1*Fuselage Damage^1 + 0.000001914 * Airport^1*Landing Gear Strike^1 + -0.000021710 * Airport^1*Landing Gear Damage^1 + 0.000014758 * Airport^1*Tail Strike^1 + 0.000009855 * Airport^1*Tail Damage^1 + 0.000023182 * Airport^1*Lights Strike^1 + 0.000017413 * Airport^1*Lights Damage^1 + 0.000000711 * Airport^1*Other Strike^1 + -0.000009115 * Airport^1*Other Damage^1 + 0.000000959 * State^2 + 0.000014601 * State^1*FAA Region^1 + 0.000017626 * State^1*Warning Issued^1 + 0.000002293 * State^1*Flight Phase^1 + -0.000010415 * State^1*Visibility^1 + -0.000011538 * State^1*Precipitation^1 + 0.000000038 * State^1*Height^1 + -0.000000168 * State^1*Speed^1 + -0.000000027 * State^1*Distance^1 + -0.000000035 * State^1*Species ID^1 + 0.000000006 * State^1*Species Name^1 + 0.000052847 * State^1*Species Quantity^1 + -0.000021283 * State^1*Flight Impact^1 + 0.000078894 * State^1*Fatalities^1 + 0.000005902 * State^1*Injuries^1 + -0.000009562 * State^1*Radome Strike^1 + 0.000181262 * State^1*Radome Damage^1 + -0.000004459 * State^1*Windshield Strike^1 + 0.000335344 * State^1*Windshield Damage^1 + -0.000023569 * State^1*Nose Strike^1 + -0.000346663 * State^1*Nose Damage^1 + 0.000005823 * State^1*Engine1 Strike^1 + -0.000121832 * State^1*Engine1 Damage^1 + 0.000042070 * State^1*Engine2 Strike^1 + -0.000136309 * State^1*Engine2 Damage^1 + 0.000939184 * State^1*Engine3 Strike^1 + -0.000754701 * State^1*Engine3 Damage^1 + -0.000092863 * State^1*Engine4 Strike^1 + 0.000251547 * State^1*Engine4 Damage^1 + 0.000092873 * State^1*Engine Ingested^1 + -0.000098998 * State^1*Propeller Strike^1 + 0.000786087 * State^1*Propeller Damage^1 + -

0.000062204 * State^1*Wing or Rotor Strike^1 + 0.000218872 * State^1*Wing or Rotor Damage^1 + -0.000036687 * State^1*Fuselage Strike^1 + 0.000482964 * State^1*Fuselage Damage^1 + -0.000023786 * State^1*Landing Gear Strike^1 + -0.000075573 * State^1*Landing Gear Damage^1 + 0.000603948 * State^1*Tail Strike^1 + -0.000774996 * State^1*Tail Damage^1 + -0.000716261 * State^1*Lights Strike^1 + 0.001213144 * State^1*Lights Damage^1 + 0.000018267 * State^1*Other Strike^1 + 0.000552477 * State^1*Other Damage^1 + 0.000013265 * FAA Region^2 + 0.000043296 * FAA Region^1*Warning Issued^1 + 0.00002519 * FAA Region^1*Flight Phase^1 + -0.000007200 * FAA Region^1*Visibility^1 + -0.000064356 * FAA Region^1*Precipitation^1 + 0.000000889 * FAA Region^1*Height^1 + -0.000001779 * FAA Region^1*Speed^1 + -0.000001819 * FAA Region^1*Distance^1 + 0.000000050 * FAA Region^1*Species ID^1 + -0.000000093 * FAA Region^1*Species Name^1 + 0.000467394 * FAA Region^1*Species Quantity^1 + 0.000005262 * FAA Region^1*Flight Impact^1 + 0.000940393 * FAA Region^1*Fatalities^1 + -0.001509146 * FAARegion^1*Injuries^1 + -0.000032359 * FAA Region^1*Radome Strike^1 + -0.000616670 * FAA Region^1*Radome Damage^1 + 0.000142856 * FAA Region^1*Windshield Strike^1 + 0.003591887 * FAA Region^1*Windshield Damage^1 + 0.000165397 * FAA Region^1*Nose Strike^1 + 0.007257571 * FAA Region^1*Nose Damage^1 + 0.001003157 * FAA Region^1*Engine1 Strike^1 + 0.002660000 * FAA Region^1*Engine1 Damage^1 + 0.001600797 * FAA Region^1*Engine2 Strike^1 + -0.000149061 * FAA Region^1*Engine2 Damage^1 + 0.001013040 * FAA Region^1*Engine3 Strike^1 + 0.000938879 * FAA Region^1*Engine3 Damage^1 + 0.001556413 * FAA Region^1*Engine4 Strike^1 + 0.000660006 * FAA Region^1*Engine4 Damage^1 + -0.002244869 * FAA Region^1*Engine Ingested^1 + 0.000151646 * FAA Region^1*Propeller Strike^1 + 0.009950421 * FAA Region^1*Propeller Damage^1 + -0.000386644 * FAA Region^1*Wing or Rotor Strike^1 + 0.002172456 * FAA Region^1*Wing or Rotor Damage^1 + 0.000266485 * FAA Region^1*Fuselage Strike^1 + 0.003572845 * FAA Region^1*Fuselage Damage^1 + 0.000679440 * FAA Region^1*Landing Gear Strike^1 + 0.001737615 * FAA Region^1*Landing Gear Damage^1 + -0.000029129 * FAA Region^1*Tail Strike^1 + -0.000456074 * FAA Region^1*Tail Damage^1 + 0.001932563 * FAA Region^1*Lights Strike^1 + -0.005852271 * FAA Region^1*Lights Damage^1 + 0.000392739 * FAA Region^1*Other Strike^1 + 0.002995562 * FAA Region^1*Other Damage^1 + -0.000183244 * Warning Issued^2 + -0.000013167 * Warning Issued^1*Flight Phase^1 + 0.000252888 * Warning Issued^1*Visibility^1 + -0.000342535 * Warning Issued^1*Precipitation^1 + -0.000003757 * Warning Issued^1*Height^1 + 0.000006365 * Warning Issued^1*Speed^1 + 0.000010437 * Warning Issued^1*Distance^1 + -0.000004422 * Warning Issued^1*Species ID^1 + 0.000002013 * Warning Issued^1*Species Name^1 + 0.000133164 * Warning Issued^1*Species Quantity^1 + 0.000147860 * Warning Issued^1*Flight Impact^1 + -0.031829581 * Warning Issued^1*Fatalities^1 + 0.000560716 * Warning Issued^1*Injuries^1 + -0.000474469 * Warning Issued^1*Radome Strike^1 + -0.002303520 * Warning Issued^1*Radome Damage^1 + -0.000328522 * Warning Issued^1*Windshield Strike^1 + 0.003857661 * Warning Issued^1*Windshield Damage^1 + -0.000506787 * Warning Issued^1*Nose Strike^1 + -0.007583461 * Warning Issued^1*Nose Damage^1 + -0.001579032 * Warning Issued^1*Engine1 Strike^1 + -0.002788510 * Warning Issued^1*Engine1 Damage^1 + -0.002264852 * Warning Issued^1*Engine2 Strike^1 + -0.001932454 * Warning Issued^1*Engine2 Damage^1 + 0.006944404 * Warning Issued^1*Engine3 Strike^1 + -0.011088468 * Warning Issued^1*Engine3 Damage^1 + -0.009082303 * Warning

Issued^1*Engine4 Strike^1 + 0.011521188 * Warning Issued^1*Engine4 Damage^1 + 0.000825737 * Warning Issued^1*Engine Ingested^1 + -0.000510226 * Warning
Issued^1*Propeller Strike^1 + -0.008227994 * Warning Issued^1*Propeller Damage^1 + -0.000690602 * Warning Issued^1*Wing or Rotor Strike^1 + -0.004443153 * Warning
Issued^1*Wing or Rotor Damage^1 + 0.000464456 * Warning Issued^1*Fuselage Strike^1 + 0.000907620 * Warning Issued^1*Fuselage Damage^1 + -0.001780663 * Warning
Issued^1*Landing Gear Strike^1 + 0.003735384 * Warning Issued^1*Landing Gear Damage^1 + 0.000825111 * Warning Issued^1*Tail Strike^1 + -0.022587237 * Warning Issued^1*Tail
Damage^1 + -0.001142551 * Warning Issued^1*Lights Strike^1 + 0.004500177 * Warning Issued^1*Lights Damage^1 + -0.000459525 * Warning Issued^1*Other Strike^1 + 0.002869432
* Warning Issued^1*Other Damage^1 + -0.000040621 * Flight Phase^2 + 0.000067989 * Flight Phase^1*Visibility^1 + 0.000017587 * Flight Phase^1*Precipitation^1 + -0.000000027 * Flight
Phase^1*Height^1 + -0.000000801 * Flight Phase^1*Speed^1 + -0.000001298 * FlightPhase^1*Distance^1 + 0.000003603 * Flight Phase^1*Species ID^1 + 0.000000003 * Flight
Phase^1*Species Name^1 + 0.000059498 * Flight Phase^1*Species Quantity^1 + 0.000017581
* Flight Phase^1*Flight Impact^1 + 0.000054942 * Flight Phase^1*Fatalities^1 + -0.000016664
* Flight Phase^1*Injuries^1 + -0.000044627 * Flight Phase^1*Radome Strike^1 + 0.001623536
* Flight Phase^1*Radome Damage^1 + 0.000202950 * Flight Phase^1*Windshield Strike^1 + 0.002110999 * Flight Phase^1*Windshield Damage^1 + 0.000141578 * Flight Phase^1*Nose
Strike^1 + -0.000919615 * Flight Phase^1*Nose Damage^1 + -0.000430433 * Flight Phase^1*Engine1 Strike^1 + 0.000932533 * Flight Phase^1*Engine1 Damage^1 + -
0.000732349 * Flight Phase^1*Engine2 Strike^1 + 0.001218844 * Flight Phase^1*Engine2 Damage^1 + 0.001736502 * Flight Phase^1*Engine3 Strike^1 + -0.002314763 * Flight
Phase^1*Engine3 Damage^1 + 0.006578472 * Flight Phase^1*Engine4 Strike^1 + -0.007698807 * Flight Phase^1*Engine4 Damage^1 + 0.000784583 * Flight Phase^1*Engine
Ingested^1 + 0.000990575 * Flight Phase^1*Propeller Strike^1 + 0.002723532 * Flight Phase^1*Propeller Damage^1 + 0.000314199 * Flight Phase^1*Wing or Rotor Strike^1 + -
0.000058288 * Flight Phase^1*Wing or Rotor Damage^1 + 0.000289164 * Flight Phase^1*Fuselage Strike^1 + -0.006905662 * Flight Phase^1*Fuselage Damage^1 + -
0.000254366 * Flight Phase^1*Landing Gear Strike^1 + 0.006040922 * Flight Phase^1*Landing Gear Damage^1 + -0.003286639 * Flight Phase^1*Tail Strike^1 + 0.016701704 * Flight
Phase^1*Tail Damage^1 + -0.006339877 * Flight Phase^1*Lights Strike^1 + 0.009301022 * Flight Phase^1*Lights Damage^1 + 0.000157113 * Flight Phase^1*Other Strike^1 + -
0.000372571 * Flight Phase^1*Other Damage^1 + 0.000164635 * Visibility^2 + 0.000152608 * Visibility^1*Precipitation^1 + 0.000001270 * Visibility^1*Height^1 + -0.000002156 *
Visibility^1*Speed^1 + 0.000003702 * Visibility^1*Distance^1 + -0.000003615 * Visibility^1*Species ID^1 + 0.000000903 * Visibility^1*Species Name^1 + 0.001078219 *
Visibility^1*Species Quantity^1 + -0.000102562 * Visibility^1*Flight Impact^1 + 0.001243268 * Visibility^1*Fatalities^1 + 0.005456730 * Visibility^1*Injuries^1 + 0.000963104 *
Visibility^1*Radome Strike^1 + 0.002702491 * Visibility^1*Radome Damage^1 + 0.000130828 * Visibility^1*Windshield Strike^1 + 0.005423248 * Visibility^1*Windshield Damage^1 +
0.000295942 * Visibility^1*Nose Strike^1 + -0.006339006 * Visibility^1*Nose Damage^1 + 0.000244541 * Visibility^1*Engine1 Strike^1 + 0.001143589 * Visibility^1*Engine1 Damage^1 +
0.002240091 * Visibility^1*Engine2 Strike^1 + 0.003394012 * Visibility^1*Engine2 Damage^1 + 0.008205848 * Visibility^1*Engine3 Strike^1 + -0.009228345 *

Visibility^1*Engine3 Damage^1 + 0.000213587 * Visibility^1*Engine4 Strike^1 + 0.003484901
* Visibility^1*Engine4 Damage^1 + -0.001669813 * Visibility^1*Engine Ingested^1 +
0.000736030 * Visibility^1*Propeller Strike^1 + -0.030582255 * Visibility^1*Propeller
Damage^1 + 0.000272303 * Visibility^1*Wing or Rotor Strike^1 + -0.003623972 *
Visibility^1*Wing or Rotor Damage^1 + 0.000690678 * Visibility^1*Fuselage Strike^1 +
0.000764361 * Visibility^1*Fuselage Damage^1 + -0.000522023 * Visibility^1*Landing Gear
Strike^1 + -0.000547048 * Visibility^1*Landing Gear Damage^1 + -0.000483672 *
Visibility^1*Tail Strike^1 + -0.013931626 * Visibility^1*Tail Damage^1 + 0.002845194 *
Visibility^1*Lights Strike^1 + 0.013202401 * Visibility^1*Lights Damage^1 + 0.000273860 *
Visibility^1*Other Strike^1 + 0.000807608 * Visibility^1*Other Damage^1 + 0.000015530 *
Precipitation^2 + -0.000001149 * Precipitation^1*Height^1 + 0.000004499 *
Precipitation^1*Speed^1 + -0.000000919 * Precipitation^1*Distance^1 + -0.000002162 *
Precipitation^1*Species ID^1 + 0.000000537 * Precipitation^1*Species Name^1 + -
0.000306011 * Precipitation^1*Species Quantity^1 + -0.000000858 *
Precipitation^1*FlightImpact^1 + 0.093638690 * Precipitation^1*Fatalities^1 + 0.003037623 *
Precipitation^1*Injuries^1 + -0.000195222 * Precipitation^1*Radome Strike^1 + 0.004968714 *
Precipitation^1*Radome Damage^1 + -0.000736672 * Precipitation^1*Windshield Strike^1 +
0.004845268 * Precipitation^1*Windshield Damage^1 + -0.000349858 * Precipitation^1*Nose
Strike^1 + -0.002437412 * Precipitation^1*Nose Damage^1 + -0.001112288 *
Precipitation^1*Engine1 Strike^1 + 0.000297023 * Precipitation^1*Engine1 Damage^1 + -
0.001527229 * Precipitation^1*Engine2 Strike^1 + -0.000042809 * Precipitation^1*Engine2
Damage^1 + -0.005601519 * Precipitation^1*Engine3 Strike^1 + 0.005865408 *
Precipitation^1*Engine3 Damage^1 + 0.002654200 * Precipitation^1*Engine4 Strike^1 + -
0.007686654 * Precipitation^1*Engine4 Damage^1 + 0.002811943 * Precipitation^1*Engine
Ingested^1 + -0.002793358 * Precipitation^1*Propeller Strike^1 + -0.001094140 *
Precipitation^1*Propeller Damage^1 + 0.000100778 * Precipitation^1*Wing or Rotor Strike^1 +
-0.000882753 * Precipitation^1*Wing or Rotor Damage^1 + -0.000329000 *
Precipitation^1*Fuselage Strike^1 + -0.005777046 * Precipitation^1*Fuselage Damage^1 + -
0.000207378 * Precipitation^1*Landing Gear Strike^1 + -0.004916171 *
Precipitation^1*Landing Gear Damage^1 + -0.002973547 * Precipitation^1*Tail Strike^1 +
0.015403421 * Precipitation^1*Tail Damage^1 + 0.004540931 * Precipitation^1*Lights
Strike^1 + -0.000475431 * Precipitation^1*Lights Damage^1 + -0.000497303 *
Precipitation^1*Other Strike^1 + 0.004369591 * Precipitation^1*Other Damage^1 + -
0.000000064 * Height^2 + 0.000000093 * Height^1*Speed^1 + 0.000000140 *
Height^1*Distance^1 + 0.000000021 * Height^1*Species ID^1 + -0.000000020 *
Height^1*Species Name^1 + -0.000005716 * Height^1*Species Quantity^1 + 0.000004120 *
Height^1*Flight Impact^1 + -0.000002456 * Height^1*Fatalities^1 + -0.000008321 *
Height^1*Injuries^1 + -0.000010110 * Height^1*Radome Strike^1 + -0.000096615 *
Height^1*Radome Damage^1 + -0.000010884 * Height^1*Windshield Strike^1 + -0.000073525
* Height^1*Windshield Damage^1 + -0.000007159 * Height^1*Nose Strike^1 + -0.000002527 *
Height^1*Nose Damage^1 + 0.000021522 * Height^1*Engine1 Strike^1 + 0.000025640 *
Height^1*Engine1 Damage^1 + -0.000002007 * Height^1*Engine2 Strike^1 + 0.000050845 *
Height^1*Engine2 Damage^1 + 0.000123876 * Height^1*Engine3 Strike^1 + -0.000080054 *
Height^1*Engine3 Damage^1 + -0.000015745 * Height^1*Engine4 Strike^1 + 0.000013240 *
Height^1*Engine4 Damage^1 + -0.000051238 * Height^1*Engine Ingested^1 + -0.000008679 *
Height^1*Propeller Strike^1 + -0.000114418 * Height^1*Propeller Damage^1 + -0.000001471 *

Height^1*Wing or Rotor Strike^1 + 0.000000362 * Height^1*Wing or Rotor Damage^1 + -0.000001930 * Height^1*Fuselage Strike^1 + 0.000197626 * Height^1*Fuselage Damage^1 + 0.000000629 * Height^1*Landing Gear Strike^1 + -0.000041927 * Height^1*Landing Gear Damage^1 + 0.000022145 * Height^1*Tail Strike^1 + -0.000206965 * Height^1*Tail Damage^1 + 0.000054238 * Height^1*Lights Strike^1 + -0.000116213 * Height^1*Lights Damage^1 + -0.000008943 * Height^1*Other Strike^1 + -0.000012229 * Height^1*Other Damage^1 + -0.000000202 * Speed^2 + -0.000000282 * Speed^1*Distance^1 + -0.000000023 * Speed^1*Species ID^1 + 0.000000036 * Speed^1*Species Name^1 + -0.000007077 * Speed^1*Species Quantity^1 + -0.000001013 * Speed^1*Flight Impact^1 + -0.003686626 * Speed^1*Fatalities^1 + -0.000099476 * Speed^1*Injuries^1 + 0.000022283 * Speed^1*Radome Strike^1 + 0.000155499 * Speed^1*Radome Damage^1 + 0.000020083 * Speed^1*Windshield Strike^1 + -0.000061702 * Speed^1*Windshield Damage^1 + 0.000010776 * Speed^1*Nose Strike^1 + 0.000285549 * Speed^1*Nose Damage^1 + -0.000009008 * Speed^1*Engine1 Strike^1 + -0.00008219 * Speed^1*Engine1 Damage^1 + 0.000015006 * Speed^1*Engine2Strike^1 + -0.000144901 * Speed^1*Engine2 Damage^1 + -0.000033665 * Speed^1*Engine3 Strike^1 + 0.000060802 * Speed^1*Engine3 Damage^1 + -0.000067578 * Speed^1*Engine4 Strike^1 + 0.000038508 * Speed^1*Engine4 Damage^1 + 0.000050166 * Speed^1*Engine Ingested^1 + -0.000040378 * Speed^1*Propeller Strike^1 + 0.000025461 * Speed^1*Propeller Damage^1 + 0.000008911 * Speed^1*Wing or Rotor Strike^1 + -0.000028001 * Speed^1*Wing or Rotor Damage^1 + 0.000002524 * Speed^1*Fuselage Strike^1 + -0.000185365 * Speed^1*Fuselage Damage^1 + 0.000006169 * Speed^1*Landing Gear Strike^1 + 0.000210546 * Speed^1*Landing Gear Damage^1 + -0.000035508 * Speed^1*Tail Strike^1 + -0.000163749 * Speed^1*Tail Damage^1 + -0.000442928 * Speed^1*Lights Strike^1 + 0.000514939 * Speed^1*Lights Damage^1 + 0.000020588 * Speed^1*Other Strike^1 + 0.000119802 * Speed^1*Other Damage^1 + 0.000000007 * Distance^2 + -0.000000049 * Distance^1*Species ID^1 + -0.000000063 * Distance^1*Species Name^1 + -0.000007406 * Distance^1*Species Quantity^1 + -0.000013489 * Distance^1*Flight Impact^1 + 0.000015465 * Distance^1*Fatalities^1 + 0.000107777 * Distance^1*Injuries^1 + -0.000015379 * Distance^1*Radome Strike^1 + 0.000228584 * Distance^1*Radome Damage^1 + -0.000008567 * Distance^1*Windshield Strike^1 + -0.000128982 * Distance^1*Windshield Damage^1 + -0.000015490 * Distance^1*Nose Strike^1 + 0.000197773 * Distance^1*Nose Damage^1 + -0.000111014 * Distance^1*Engine1 Strike^1 + -0.000087127 * Distance^1*Engine1 Damage^1 + -0.000079376 * Distance^1*Engine2 Strike^1 + -0.000122111 * Distance^1*Engine2 Damage^1 + -0.000302077 * Distance^1*Engine3 Strike^1 + 0.000070161 * Distance^1*Engine3 Damage^1 + 0.000296163 * Distance^1*Engine4 Strike^1 + -0.000622380 * Distance^1*Engine4 Damage^1 + 0.000217868 * Distance^1*Engine Ingested^1 + 0.000128033 * Distance^1*Propeller Strike^1 + -0.001365897 * Distance^1*Propeller Damage^1 + -0.000009841 * Distance^1*Wing or Rotor Strike^1 + 0.000067357 * Distance^1*Wing or Rotor Damage^1 + -0.000022064 * Distance^1*Fuselage Strike^1 + -0.000279234 * Distance^1*Fuselage Damage^1 + -0.000045489 * Distance^1*Landing Gear Strike^1 + 0.000526332 * Distance^1*Landing Gear Damage^1 + -0.000179464 * Distance^1*Tail Strike^1 + 0.001423328 * Distance^1*Tail Damage^1 + -0.000171406 * Distance^1*Lights Strike^1 + 0.000331014 * Distance^1*Lights Damage^1 + -0.000010886 * Distance^1*Other Strike^1 + -0.000420650 * Distance^1*Other Damage^1 + 0.000000029 * Species ID^2 + -0.000000008 * Species ID^1*Species Name^1 + -0.000017050 * Species

ID^1*Species Quantity^1 + -0.000005239 * Species ID^1*Flight Impact^1 + -0.000047545 * Species ID^1*Fatalities^1 + -0.000005609 * Species ID^1*Injuries^1 + 0.000021848 * Species ID^1*Radome Strike^1 + 0.000162182 * Species ID^1*Radome Damage^1 + 0.000042573 * Species ID^1*Windshield Strike^1 + -0.000021012 * Species ID^1*Windshield Damage^1 + 0.000022012 * Species ID^1*Nose Strike^1 + 0.000276742 * Species ID^1*Nose Damage^1 + -0.000017812 * Species ID^1*Engine1 Strike^1 + 0.000192215 * Species ID^1*Engine1 Damage^1 + 0.000029885 * Species ID^1*Engine2 Strike^1 + 0.000111627 * Species ID^1*Engine2 Damage^1 + -0.000173639 * Species ID^1*Engine3 Strike^1 + 0.000250052 * Species ID^1*Engine3 Damage^1 + 0.000014136 * Species ID^1*Engine4 Strike^1 + 0.000138649 * Species ID^1*Engine4 Damage^1 + -0.000031329 * Species ID^1*Engine Ingested^1 + 0.000033911 * Species ID^1*Propeller Strike^1 + 0.000267012 * Species ID^1*Propeller Damage^1 + 0.000028247 * Species ID^1*Wing or Rotor Strike^1 + 0.000164154 * Species ID^1*Wing or Rotor Damage^1 + 0.000034165 * Species ID^1*Fuselage Strike^1 + 0.000267663 * Species ID^1*Fuselage Damage^1 + 0.000052303 * Species ID^1*Landing Gear Strike^1 + 0.000177352 * Species ID^1*Landing Gear Damage^1 + 0.000022457 * Species ID^1*Tail Strike^1 + 0.000291166 * Species ID^1*Tail Damage^1 + -0.000031233 * Species ID^1*Lights Strike^1 + 0.000303904 * Species ID^1*Lights Damage^1 + 0.000043897 * Species ID^1*Other Strike^1 + 0.000154168 * Species ID^1*Other Damage^1 + -0.000000001 * Species Name^2 + 0.000001615 * Species Name^1*Species Quantity^1 + -0.000001107 * Species Name^1*Flight Impact^1 + -0.000007393 * Species Name^1*Fatalities^1 + -0.000007898 * Species Name^1*Injuries^1 + 0.000000519 * Species Name^1*Radome Strike^1 + -0.000003730 * Species Name^1*Radome Damage^1 + 0.000002222 * Species Name^1*Windshield Strike^1 + 0.000082887 * Species Name^1*Windshield Damage^1 + -0.000000617 * Species Name^1*Nose Strike^1 + -0.000027624 * Species Name^1*Nose Damage^1 + 0.000010864 * Species Name^1*Engine1 Strike^1 + -0.000014502 * Species Name^1*Engine1 Damage^1 + -0.000003242 * Species Name^1*Engine2 Strike^1 + 0.000003808 * Species Name^1*Engine2 Damage^1 + -0.000019182 * Species Name^1*Engine3 Strike^1 + 0.000017216 * Species Name^1*Engine3 Damage^1 + -0.000014197 * Species Name^1*Engine4 Strike^1 + -0.000020098 * Species Name^1*Engine4 Damage^1 + 0.000004435 * Species Name^1*Engine Ingested^1 + 0.000004942 * Species Name^1*Propeller Strike^1 + -0.000045918 * Species Name^1*Propeller Damage^1 + 0.000003025 * Species Name^1*Wing or Rotor Strike^1 + -0.000027742 * Species Name^1*Wing or Rotor Damage^1 + -0.000002063 * Species Name^1*Fuselage Strike^1 + -0.000121676 * Species Name^1*Fuselage Damage^1 + -0.000010473 * Species Name^1*Landing Gear Strike^1 + -0.000206275 * Species Name^1*Landing Gear Damage^1 + 0.000015382 * Species Name^1*Tail Strike^1 + -0.000194449 * Species Name^1*Tail Damage^1 + -0.000160524 * Species Name^1*Lights Strike^1 + 0.000160618 * Species Name^1*Lights Damage^1 + -0.000002998 * Species Name^1*Other Strike^1 + 0.000029096 * Species Name^1*Other Damage^1 + -0.000407571 * Species Quantity^2 + -0.000072097 * Species Quantity^1*Flight Impact^1 + 0.074965407 * Species Quantity^1*Fatalities^1 + -0.016570052 * Species Quantity^1*Injuries^1 + 0.001546501 * Species Quantity^1*Radome Strike^1 + -0.055781646 * Species Quantity^1*Radome Damage^1 + -0.000653475 * Species Quantity^1*Windshield Strike^1 + -0.020927238 * Species Quantity^1*Windshield Damage^1 + 0.002106916 * Species Quantity^1*Nose Strike^1 + 0.008252167 * Species Quantity^1*Nose Damage^1 + 0.014724335 * Species Quantity^1*Engine1 Strike^1 + -0.053754888 * Species

Quantity^1*Engine1 Damage^1 + 0.006458423 * Species Quantity^1*Engine2 Strike^1 + - 0.029385521 * Species Quantity^1*Engine2 Damage^1 + 0.008540144 * Species
Quantity^1*Engine3 Strike^1 + -0.022932150 * Species Quantity^1*Engine3 Damage^1 + 0.005367459 * Species Quantity^1*Engine4 Strike^1 + -0.022872441 * Species
Quantity^1*Engine4 Damage^1 + 0.007169523 * Species Quantity^1*Engine Ingested^1 + - 0.006452988 * Species Quantity^1*Propeller Strike^1 + 0.039722023 * Species
Quantity^1*Propeller Damage^1 + 0.002422877 * Species Quantity^1*Wing or Rotor Strike^1 + - 0.036043614 * Species Quantity^1*Wing or Rotor Damage^1 + -0.001433326 * Species
Quantity^1*Fuselage Strike^1 + -0.048279582 * Species Quantity^1*Fuselage Damage^1 + - 0.000423662 * Species Quantity^1*Landing Gear Strike^1 + -0.053727865 * Species
Quantity^1*Landing Gear Damage^1 + 0.010868857 * Species Quantity^1*Tail Strike^1 + 0.005518715 * Species Quantity^1*Tail Damage^1 + 0.000013215 * Species Quantity^1*Lights Strike^1 + 0.012192780 * Species Quantity^1*Lights Damage^1 + 0.002241478 * Species
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* Flight Impact^1*Radome Damage^1 + 0.000219551 * Flight Impact^1*Windshield Strike^1 + 0.010224117 * Flight Impact^1*Windshield Damage^1 + 0.001221271 * Flight Impact^1*Nose Strike^1 + -0.014848032 * Flight Impact^1*Nose Damage^1 + 0.001589816 * Flight Impact^1*Engine1 Strike^1 + 0.002588410 * Flight Impact^1*Engine1 Damage^1 + 0.003197483 * Flight Impact^1*Engine2 Strike^1 + 0.001358787 * Flight Impact^1*Engine2 Damage^1 + 0.004002156 * Flight Impact^1*Engine3 Strike^1 + -0.002866972 * Flight Impact^1*Engine3 Damage^1 + 0.002740243 * Flight Impact^1*Engine4 Strike^1 + 0.003171744 * Flight Impact^1*Engine4 Damage^1 + -0.004159788 * Flight Impact^1*Engine Ingested^1 + 0.002221506 * Flight Impact^1*Propeller Strike^1 + -0.005275395 * Flight Impact^1*Propeller Damage^1 + 0.000232341 * Flight Impact^1*Wing or Rotor Strike^1 + 0.000938584 * Flight Impact^1*Wing or Rotor Damage^1 + -0.001292272 * Flight Impact^1*Fuselage Strike^1 + 0.003990647 * Flight Impact^1*Fuselage Damage^1 + 0.001170616 * Flight Impact^1*Landing Gear Strike^1 + -0.010245908 * Flight Impact^1*Landing Gear Damage^1 + -0.001139063 * Flight Impact^1*Tail Strike^1 + - 0.020826516 * Flight Impact^1*Tail Damage^1 + 0.034003197 * Flight Impact^1*Lights Strike^1 + -0.042319047 * Flight Impact^1*Lights Damage^1 + 0.000183328 * Flight Impact^1*Other Strike^1 + 0.002353893 * Flight Impact^1*Other Damage^1 + -0.059030621 * Fatalities^2 + -0.000388503 * Fatalities^1*Injuries^1 + -0.005963248 * Fatalities^1*Radome Strike^1 + -0.037531450 * Fatalities^1*Radome Damage^1 + -0.006988560 * Fatalities^1*Windshield Strike^1 + -0.024998877 * Fatalities^1*Windshield Damage^1 + 0.000372775 * Fatalities^1*Nose Strike^1 + 0.083444976 * Fatalities^1*Nose Damage^1 + - 0.002612257 * Fatalities^1*Engine1 Strike^1 + 0.075539963 * Fatalities^1*Engine1 Damage^1 + -0.002226319 * Fatalities^1*Engine2 Strike^1 + 0.431385145 * Fatalities^1*Engine2 Damage^1 + 0.002426114 * Fatalities^1*Engine3 Strike^1 + -0.035072530 * Fatalities^1*Engine3 Damage^1 + -0.010740095 * Fatalities^1*Engine4 Strike^1 + 0.896751200 * Fatalities^1*Engine4 Damage^1 + 0.018050255 * Fatalities^1*Engine Ingested^1 + -0.017386037 * Fatalities^1*Propeller Strike^1 + 0.016780099 * Fatalities^1*Propeller Damage^1 + -0.005945959 * Fatalities^1*Wing or Rotor Strike^1 + - 0.029053928 * Fatalities^1*Wing or Rotor Damage^1 + -0.005950587 * Fatalities^1*Fuselage

Strike^1 + -0.046428527 * Fatalities^1 * Fuselage Damage^1 + -0.010054584 * Fatalities^1 * Landing Gear Strike^1 + -0.062358806 * Fatalities^1 * Landing Gear Damage^1 + 0.008379211 * Fatalities^1 * Tail Strike^1 + 0.032915789 * Fatalities^1 * Tail Damage^1 + -0.002494180 * Fatalities^1 * Lights Strike^1 + 0.121660338 * Fatalities^1 * Lights Damage^1 + -0.003867760 * Fatalities^1 * Other Strike^1 + 0.108234702 * Fatalities^1 * Other Damage^1 + -0.004919771 * Injuries^2 + -0.029392814 * Injuries^1 * Radome Strike^1 + -0.241434703 * Injuries^1 * Radome Damage^1 + -0.067120556 * Injuries^1 * Windshield Strike^1 + 0.013374850 * Injuries^1 * Windshield Damage^1 + -0.008451988 * Injuries^1 * Nose Strike^1 + 0.007247886 * Injuries^1 * Nose Damage^1 + -0.020705599 * Injuries^1 * Engine1 Strike^1 + -0.019274056 * Injuries^1 * Engine1 Damage^1 + 0.266387005 * Injuries^1 * Engine2 Strike^1 + -0.273681480 * Injuries^1 * Engine2 Damage^1 + -0.002381651 * Injuries^1 * Engine3 Strike^1 + 0.099260657 * Injuries^1 * Engine3 Damage^1 + -0.101384548 * Injuries^1 * Engine4 Strike^1 + -0.409263672 * Injuries^1 * Engine4 Damage^1 + -0.025047882 * Injuries^1 * Engine Ingested^1 + -0.025410515 * Injuries^1 * Propeller Strike^1 + 0.039083066 * Injuries^1 * Propeller Damage^1 + 0.038877997 * Injuries^1 * Wing or Rotor Strike^1 + -0.038430640 * Injuries^1 * Wing or Rotor Damage^1 + -0.003622794 * Injuries^1 * Fuselage Strike^1 + -0.003350703 * Injuries^1 * Fuselage Damage^1 + -0.125652566 * Injuries^1 * Landing Gear Strike^1 + 0.094691821 * Injuries^1 * Landing Gear Damage^1 + -0.009074030 * Injuries^1 * Tail Strike^1 + 0.009345719 * Injuries^1 * Tail Damage^1 + -0.090098127 * Injuries^1 * Lights Strike^1 + 0.004284194 * Injuries^1 * Lights Damage^1 + 0.017173618 * Injuries^1 * Other Strike^1 + -0.010555967 * Injuries^1 * Other Damage^1 + 0.106273209 * Radome Strike^2 + -0.543875604 * Radome Strike^1 * Radome Damage^1 + 0.013462951 * Radome Strike^1 * Windshield Strike^1 + -0.120961550 * Radome Strike^1 * Windshield Damage^1 + 0.006981437 * Radome Strike^1 * Nose Strike^1 + -0.035755738 * Radome Strike^1 * Nose Damage^1 + 0.005900935 * Radome Strike^1 * Engine1 Strike^1 + 0.005289965 * Radome Strike^1 * Engine1 Damage^1 + 0.010311860 * Radome Strike^1 * Engine2 Strike^1 + 0.026232781 * Radome Strike^1 * Engine2 Damage^1 + 0.089082747 * Radome Strike^1 * Engine3 Strike^1 + -0.072057780 * Radome Strike^1 * Engine3 Damage^1 + 0.022513058 * Radome Strike^1 * Engine4 Strike^1 + 0.004887155 * Radome Strike^1 * Engine4 Damage^1 + -0.003620978 * Radome Strike^1 * Engine Ingested^1 + -0.011222834 * Radome Strike^1 * Propeller Strike^1 + 0.074979377 * Radome Strike^1 * Propeller Damage^1 + 0.001867192 * Radome Strike^1 * Wing or Rotor Strike^1 + 0.002549623 * Radome Strike^1 * Wing or Rotor Damage^1 + 0.010197371 * Radome Strike^1 * Fuselage Strike^1 + -0.190473861 * Radome Strike^1 * Fuselage Damage^1 + -0.000690937 * Radome Strike^1 * Landing Gear Strike^1 + -0.093981742 * Radome Strike^1 * Landing Gear Damage^1 + 0.009915968 * Radome Strike^1 * Tail Strike^1 + -0.273406524 * Radome Strike^1 * Tail Damage^1 + 0.010050682 * Radome Strike^1 * Lights Strike^1 + 0.018674852 * Radome Strike^1 * Lights Damage^1 + 0.009659987 * Radome Strike^1 * Other Strike^1 + 0.023377763 * Radome Strike^1 * Other Damage^1 + 1.577030611 * Radome Damage^2 + -0.016365714 * Radome Damage^1 * Windshield Strike^1 + -0.218577093 * Radome Damage^1 * Windshield Damage^1 + 0.018624280 * Radome Damage^1 * Nose Strike^1 + -0.634883238 * Radome Damage^1 * Nose Damage^1 + 0.013641782 * Radome Damage^1 * Engine1 Strike^1 + -0.337481373 * Radome Damage^1 * Engine1 Damage^1 + 0.012198848 * Radome Damage^1 * Engine2 Strike^1 + -0.386257057 * Radome Damage^1 * Engine2 Damage^1 + -0.487385113 * Radome Damage^1 * Engine3 Strike^1 + -0.922420200 * Radome Damage^1 * Engine3 Damage^1 + 0.000000000 * Radome Damage^1 * Engine4 Strike^1 +

0.416178838 * Radome Damage^1*Engine4 Damage^1 + -0.041654176 * Radome
Damage^1*Engine Ingested^1 + 0.006739402 * Radome Damage^1*Propeller Strike^1 + -
0.062222111 * Radome Damage^1*Propeller Damage^1 + -0.020700934 * Radome
Damage^1*Wing or Rotor Strike^1 + -0.388937475 * Radome Damage^1*Wing or Rotor
Damage^1 + -0.043418322 * Radome Damage^1*Fuselage Strike^1 + -0.195115833 * Radome
Damage^1*Fuselage Damage^1 + 0.058913952 * Radome Damage^1*Landing Gear Strike^1 +
0.113322696 * Radome Damage^1*Landing Gear Damage^1 + -0.206437040 * Radome
Damage^1*Tail Strike^1 + 0.596841692 * Radome Damage^1*Tail Damage^1 + 0.258768915 *
Radome Damage^1*Lights Strike^1 + -0.031028774 * Radome Damage^1*Lights Damage^1 +
0.042963726 * Radome Damage^1*Other Strike^1 + -0.594867686 * Radome Damage^1*Other
Damage^1 + 0.228501106 * Windshield Strike^2 + 0.286653121 * Windshield
Strike^1*Windshield Damage^1 + 0.016489467 * Windshield Strike^1*Nose Strike^1 +
0.017956110 * Windshield Strike^1*Nose Damage^1 + -0.008104333 * Windshield
Strike^1*Engine1 Strike^1 + 0.031407433 * Windshield Strike^1*Engine1 Damage^1 +
0.000670295 * Windshield Strike^1*Engine2 Strike^1 + 0.023824235 * Windshield
Strike^1*Engine2 Damage^1 + 0.011660678 * Windshield Strike^1*Engine3 Strike^1
+ 0.672519804 * Windshield Strike^1*Engine3 Damage^1 + -0.167020380 * Windshield
Strike^1*Engine4 Strike^1 + 0.000000000 * Windshield Strike^1*Engine4 Damage^1 + -
0.009062958 * Windshield Strike^1*Engine Ingested^1 + 0.017786359 * Windshield
Strike^1*Propeller Strike^1 + -0.028011559 * Windshield Strike^1*Propeller Damage^1 +
0.011217859 * Windshield Strike^1*Wing or Rotor Strike^1 + -0.011476808 * Windshield
Strike^1*Wing or Rotor Damage^1 + 0.008263304 * Windshield Strike^1*Fuselage Strike^1 +
0.002605088 * Windshield Strike^1*Fuselage Damage^1 + -0.017017154 * Windshield
Strike^1*Landing Gear Strike^1 + -0.200154659 * Windshield Strike^1*Landing Gear
Damage^1 + -0.000661286 * Windshield Strike^1*Tail Strike^1 + 0.046484465 * Windshield
Strike^1*Tail Damage^1 + 0.108775762 * Windshield Strike^1*Lights Strike^1 + -0.108615673
* Windshield Strike^1*Lights Damage^1 + 0.010641334 * Windshield Strike^1*Other Strike^1
+ 0.048114866 * Windshield Strike^1*Other Damage^1 + 0.223198039 * Windshield
Damage^2 + 0.010488185 * Windshield Damage^1*Nose Strike^1 + -0.592104497 *
Windshield Damage^1*Nose Damage^1 + -0.062101084 * Windshield Damage^1*Engine1
Strike^1 + 0.209265133 * Windshield Damage^1*Engine1 Damage^1 + -0.350793105 *
Windshield Damage^1*Engine2 Strike^1 + -0.327744394 * Windshield Damage^1*Engine2
Damage^1 + -0.000000000 * Windshield Damage^1*Engine3 Strike^1 + -0.000000000 *
Windshield Damage^1*Engine3 Damage^1 + 0.000000000 * Windshield Damage^1*Engine4
Strike^1 + 0.000000000 * Windshield Damage^1*Engine4 Damage^1 + -0.196257565 *
Windshield Damage^1*Engine Ingested^1 + -0.141060382 * Windshield Damage^1*Propeller
Strike^1 + 0.033467883 * Windshield Damage^1*Propeller Damage^1 + 0.060485032 *
Windshield Damage^1*Wing or Rotor Strike^1 + -0.637128264 * Windshield Damage^1*Wing
or Rotor Damage^1 + 0.049495290 * Windshield Damage^1*Fuselage Strike^1 + -0.479909636
* Windshield Damage^1*Fuselage Damage^1 + -0.060612982 * Windshield
Damage^1*Landing Gear Strike^1 + -0.065705355 * Windshield Damage^1*Landing Gear
Damage^1 + 0.099256551 * Windshield Damage^1*Tail Strike^1 + -0.414595179 * Windshield
Damage^1*Tail Damage^1 + -1.163420209 * Windshield Damage^1*Lights Strike^1 +
0.826717697 * Windshield Damage^1*Lights Damage^1 + -0.039343316 * Windshield
Damage^1*Other Strike^1 + -0.645132397 * Windshield Damage^1*Other Damage^1 +
0.000074555 * Nose Strike^2 + 0.021928512 * Nose Strike^1*Nose Damage^1 + 0.007843277

$$\begin{aligned}
& * \text{Nose Strike}^1 * \text{Engine1 Strike}^1 + -0.016145913 * \text{Nose Strike}^1 * \text{Engine1 Damage}^1 + - \\
& 0.010618013 * \text{Nose Strike}^1 * \text{Engine2 Strike}^1 + 0.044304309 * \text{Nose Strike}^1 * \text{Engine2} \\
& \text{Damage}^1 + 0.084975544 * \text{Nose Strike}^1 * \text{Engine3 Strike}^1 + -0.056361812 * \text{Nose} \\
& \text{Strike}^1 * \text{Engine3 Damage}^1 + -0.111298751 * \text{Nose Strike}^1 * \text{Engine4 Strike}^1 + - \\
& 0.000000000 * \text{Nose Strike}^1 * \text{Engine4 Damage}^1 + -0.003154329 * \text{Nose Strike}^1 * \text{Engine} \\
& \text{Ingested}^1 + 0.014464655 * \text{Nose Strike}^1 * \text{Propeller Strike}^1 + -0.092151527 * \text{Nose} \\
& \text{Strike}^1 * \text{Propeller Damage}^1 + 0.006814227 * \text{Nose Strike}^1 * \text{Wing or Rotor Strike}^1 + - \\
& 0.012411522 * \text{Nose Strike}^1 * \text{Wing or Rotor Damage}^1 + 0.014109944 * \text{Nose} \\
& \text{Strike}^1 * \text{Fuselage Strike}^1 + -0.064097539 * \text{Nose Strike}^1 * \text{Fuselage Damage}^1 + \\
& 0.009435499 * \text{Nose Strike}^1 * \text{Landing Gear Strike}^1 + 0.066901137 * \text{Nose Strike}^1 * \text{Landing} \\
& \text{Gear Damage}^1 + -0.020041430 * \text{Nose Strike}^1 * \text{Tail Strike}^1 + 0.108577553 * \text{Nose} \\
& \text{Strike}^1 * \text{Tail Damage}^1 + -0.023895626 * \text{Nose Strike}^1 * \text{Lights Strike}^1 + 0.084112911 * \\
& \text{Nose Strike}^1 * \text{Lights Damage}^1 + 0.016178765 * \text{Nose Strike}^1 * \text{Other Strike}^1 + 0.027198674 * \\
& \text{Nose Strike}^1 * \text{Other Damage}^1 + 0.237699624 * \text{Nose Damage}^2 + -0.022924348 * \text{Nose} \\
& \text{Damage}^1 * \text{Engine1 Strike}^1 + -0.136892152 * \text{Nose Damage}^1 * \text{Engine1 Damage}^1 + - \\
& 0.005311303 * \text{Nose Damage}^1 * \text{Engine2 Strike}^1 + 0.150321757 * \text{Nose} \\
& \text{Damage}^1 * \text{Engine2 Damage}^1 + 0.349700997 * \text{Nose Damage}^1 * \text{Engine3 Strike}^1 + - \\
& 2.142179672 * \text{Nose} \\
& \text{Damage}^1 * \text{Engine3 Damage}^1 + 0.000000000 * \text{Nose Damage}^1 * \text{Engine4 Strike}^1 + \\
& 0.416178838 * \text{Nose Damage}^1 * \text{Engine4 Damage}^1 + -0.077856857 * \text{Nose Damage}^1 * \text{Engine} \\
& \text{Ingested}^1 + 0.011659600 * \text{Nose Damage}^1 * \text{Propeller Strike}^1 + -0.161417914 * \text{Nose} \\
& \text{Damage}^1 * \text{Propeller Damage}^1 + -0.064949562 * \text{Nose Damage}^1 * \text{Wing or Rotor Strike}^1 + - \\
& 0.191638083 * \text{Nose Damage}^1 * \text{Wing or Rotor Damage}^1 + 0.024063419 * \text{Nose} \\
& \text{Damage}^1 * \text{Fuselage Strike}^1 + -0.376384212 * \text{Nose Damage}^1 * \text{Fuselage Damage}^1 + - \\
& 0.097352831 * \text{Nose Damage}^1 * \text{Landing Gear Strike}^1 + -0.180946152 * \text{Nose} \\
& \text{Damage}^1 * \text{Landing Gear Damage}^1 + 0.066048153 * \text{Nose Damage}^1 * \text{Tail Strike}^1 + - \\
& 0.051187114 * \text{Nose Damage}^1 * \text{Tail Damage}^1 + -0.535599583 * \text{Nose Damage}^1 * \text{Lights} \\
& \text{Strike}^1 + 0.060658724 * \text{Nose Damage}^1 * \text{Lights Damage}^1 + 0.111724379 * \text{Nose} \\
& \text{Damage}^1 * \text{Other Strike}^1 + -0.525658581 * \text{Nose Damage}^1 * \text{Other Damage}^1 + 0.079816736 * \\
& \text{Engine1 Strike}^2 + -0.018379651 * \text{Engine1 Strike}^1 * \text{Engine1 Damage}^1 + 0.008971543 * \\
& \text{Engine1 Strike}^1 * \text{Engine2 Strike}^1 + -0.040148725 * \text{Engine1 Strike}^1 * \text{Engine2 Damage}^1 + - \\
& 0.008995769 * \text{Engine1 Strike}^1 * \text{Engine3 Strike}^1 + -0.899657492 * \text{Engine1} \\
& \text{Strike}^1 * \text{Engine3 Damage}^1 + -0.005725788 * \text{Engine1 Strike}^1 * \text{Engine4 Strike}^1 + \\
& 0.000000000 * \text{Engine1 Strike}^1 * \text{Engine4 Damage}^1 + -0.028690359 * \text{Engine1} \\
& \text{Strike}^1 * \text{Engine Ingested}^1 + -0.000548391 * \text{Engine1 Strike}^1 * \text{Propeller Strike}^1 + \\
& 0.017568418 * \text{Engine1 Strike}^1 * \text{Propeller Damage}^1 + 0.009049374 * \text{Engine1 Strike}^1 * \text{Wing} \\
& \text{or Rotor Strike}^1 + 0.017708788 * \text{Engine1 Strike}^1 * \text{Wing or Rotor Damage}^1 + 0.001429720 * \\
& \text{Engine1 Strike}^1 * \text{Fuselage Strike}^1 + 0.019772825 * \text{Engine1 Strike}^1 * \text{Fuselage Damage}^1 + - \\
& 0.021907316 * \text{Engine1 Strike}^1 * \text{Landing Gear Strike}^1 + 0.054621667 * \text{Engine1} \\
& \text{Strike}^1 * \text{Landing Gear Damage}^1 + -0.014298409 * \text{Engine1 Strike}^1 * \text{Tail Strike}^1 + - \\
& 0.210750239 * \text{Engine1 Strike}^1 * \text{Tail Damage}^1 + -0.057627492 * \text{Engine1 Strike}^1 * \text{Lights} \\
& \text{Strike}^1 + 0.015369571 * \text{Engine1 Strike}^1 * \text{Lights Damage}^1 + 0.010778829 * \text{Engine1} \\
& \text{Strike}^1 * \text{Other Strike}^1 + 0.049778145 * \text{Engine1 Strike}^1 * \text{Other Damage}^1 + 0.250398162 * \\
& \text{Engine1 Damage}^2 + -0.034735091 * \text{Engine1 Damage}^1 * \text{Engine2 Strike}^1 + -0.604474645 * \\
& \text{Engine1 Damage}^1 * \text{Engine2 Damage}^1 + 0.083991804 * \text{Engine1 Damage}^1 * \text{Engine3 Strike}^1 + - \\
& 0.035711028 * \text{Engine1 Damage}^1 * \text{Engine3 Damage}^1 + 0.109101356 * \text{Engine1}
\end{aligned}$$

Damage^1*Engine4 Strike^1 + 0.416178838 * Engine1 Damage^1*Engine4 Damage^1 +
0.065139774 * Engine1 Damage^1*Engine Ingested^1 + -0.066928346 * Engine1
Damage^1*Propeller Strike^1 + -0.354163519 * Engine1 Damage^1*Propeller Damage^1 +
0.018287968 * Engine1 Damage^1*Wing or Rotor Strike^1 + -0.504591487 * Engine1
Damage^1*Wing or Rotor Damage^1 + -0.007273846 * Engine1 Damage^1*Fuselage Strike^1 +
-0.136055735 * Engine1 Damage^1*Fuselage Damage^1 + -0.029917904 * Engine1
Damage^1*Landing Gear Strike^1 + -0.004176724 * Engine1 Damage^1*Landing Gear
Damage^1 + -0.092506081 * Engine1 Damage^1*Tail Strike^1 + 0.144267837 * Engine1
Damage^1*Tail Damage^1 + 0.125131698 * Engine1 Damage^1*Lights Strike^1 + -
0.280367024 * Engine1 Damage^1*Lights Damage^1 + -0.118692967 * Engine1
Damage^1*Other Strike^1 + -0.414107549 * Engine1 Damage^1*Other Damage^1 + -
0.926443021 * Engine2 Strike^2 + -0.018013464 * Engine2 Strike^1*Engine2 Damage^1 +
0.026411632 * Engine2 Strike^1*Engine3 Strike^1 + 0.503548323 * Engine2 Strike^1*Engine3
Damage^1 + 0.079194003 * Engine2 Strike^1*Engine4 Strike^1 + -0.376513726 * Engine2
Strike^1*Engine4 Damage^1 + -0.024717257 * Engine2 Strike^1*Engine Ingested^1 + -
0.000438419 * Engine2 Strike^1*Propeller Strike^1 + -0.055548091 * Engine2
Strike^1*Propeller Damage^1 + 0.011077458 * Engine2 Strike^1*Wing or Rotor Strike^1 +
+0.001898780 * Engine2 Strike^1*Wing or Rotor Damage^1 + 0.004765665 * Engine2
Strike^1*Fuselage Strike^1 + 0.035309653 * Engine2 Strike^1*Fuselage Damage^1 + -
0.004406639 * Engine2 Strike^1*Landing Gear Strike^1 + 0.157341171 * Engine2
Strike^1*Landing Gear Damage^1 + -0.009036547 * Engine2 Strike^1*Tail Strike^1 + -
0.093397205 * Engine2 Strike^1*Tail Damage^1 + -0.019959116 * Engine2 Strike^1*Lights
Strike^1 + -0.118033433 * Engine2 Strike^1*Lights Damage^1 + 0.015295774 * Engine2
Strike^1*Other Strike^1 + 0.039534075 * Engine2 Strike^1*Other Damage^1 + 0.276430559 *
Engine2 Damage^2 + 1.302630731 * Engine2 Damage^1*Engine3 Strike^1 + -1.601545971 *
Engine2 Damage^1*Engine3 Damage^1 + -0.567814139 * Engine2 Damage^1*Engine4
Strike^1 + -1.903710706 * Engine2 Damage^1*Engine4 Damage^1 + 0.036266473 * Engine2
Damage^1*Engine Ingested^1 + -0.065417076 * Engine2 Damage^1*Propeller Strike^1 + -
0.378504694 * Engine2 Damage^1*Propeller Damage^1 + -0.038920469 * Engine2
Damage^1*Wing or Rotor Strike^1 + -0.416740573 * Engine2 Damage^1*Wing or Rotor
Damage^1 + -0.041175776 * Engine2 Damage^1*Fuselage Strike^1 + -0.208025328 * Engine2
Damage^1*Fuselage Damage^1 + 0.041113467 * Engine2 Damage^1*Landing Gear Strike^1 +
-0.274084584 * Engine2 Damage^1*Landing Gear Damage^1 + -0.095366570 * Engine2
Damage^1*Tail Strike^1 + 0.091336920 * Engine2 Damage^1*Tail Damage^1 + -0.142987936
* Engine2 Damage^1*Lights Strike^1 + 0.060189760 * Engine2 Damage^1*Lights Damage^1 +
-0.057742368 * Engine2 Damage^1*Other Strike^1 + -0.523699093 * Engine2
Damage^1*Other Damage^1 + -0.000340236 * Engine3 Strike^2 + 0.010313972 * Engine3
Strike^1*Engine3 Damage^1 + -0.004467688 * Engine3 Strike^1*Engine4 Strike^1 + -
0.703720577 * Engine3 Strike^1*Engine4 Damage^1 + -0.043671086 * Engine3
Strike^1*Engine Ingested^1 + -0.022546873 * Engine3 Strike^1*Propeller Strike^1 + -
0.069971437 * Engine3 Strike^1*Propeller Damage^1 + -0.003757719 * Engine3
Strike^1*Wing or Rotor Strike^1 + 0.053053553 * Engine3 Strike^1*Wing or Rotor Damage^1 +
+ 0.028858414 * Engine3 Strike^1*Fuselage Strike^1 + -0.119544577 * Engine3
Strike^1*Fuselage Damage^1 + -0.003500912 * Engine3 Strike^1*Landing Gear Strike^1 +
0.455993634 * Engine3 Strike^1*Landing Gear Damage^1 + -0.041518416 * Engine3
Strike^1*Tail Strike^1 + -0.501556124 * Engine3 Strike^1*Tail Damage^1 + -0.157855542 *

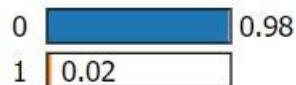
Engine3 Strike^1*Lights Strike^1 + 0.102403819 * Engine3 Strike^1*Lights Damage^1 + - 0.042061334 * Engine3 Strike^1*Other Strike^1 + 0.006659735 * Engine3 Strike^1*Other Damage^1 + 0.251996573 * Engine3 Damage^2 + 0.075265359 * Engine3 Damage^1*Engine4 Strike^1 + -0.287541739 * Engine3 Damage^1*Engine4 Damage^1 + 0.002400687 * Engine3 Damage^1*Engine Ingested^1 + 0.057604720 * Engine3 Damage^1*Propeller Strike^1 + - 0.000000000 * Engine3 Damage^1*Propeller Damage^1 + 0.024580336 * Engine3 Damage^1*Wing or Rotor Strike^1 + -0.933997085 * Engine3 Damage^1*Wing or Rotor Damage^1 + -0.019520466 * Engine3 Damage^1*Fuselage Strike^1 + 1.115537958 * Engine3 Damage^1*Fuselage Damage^1 + -0.052338676 * Engine3 Damage^1*Landing Gear Strike^1 + -1.058534669 * Engine3 Damage^1*Landing Gear Damage^1 + 0.609575078 * Engine3 Damage^1*Tail Strike^1 + -0.085377286 * Engine3 Damage^1*Tail Damage^1 + -0.970975316 * Engine3 Damage^1*Lights Strike^1 + -0.554796478 * Engine3 Damage^1*Lights Damage^1 + -0.376299119 * Engine3 Damage^1*Other Strike^1 + -0.376299119 * Engine3 Damage^1*Other Damage^1 + -0.014483507 * Engine4 Strike^2 + -0.121065837 * Engine4 Strike^1*Engine4 Damage^1 + -0.044501550 * Engine4 Strike^1*Engine Ingested^1 + - 0.033671331 * Engine4 Strike^1*Propeller Strike^1 + 0.239529326 * Engine4 Strike^1*Propeller Damage^1 + 0.040235352 * Engine4 Strike^1*Wing or Rotor Strike^1 + 0.079017759 * Engine4 Strike^1*Wing or Rotor Damage^1 + -0.004826544 * Engine4 Strike^1*Fuselage Strike^1 + -0.949323751 * Engine4 Strike^1*Fuselage Damage^1 + 0.042098900 * Engine4 Strike^1*Landing Gear Strike^1 + 0.194541964 * Engine4 Strike^1*Landing Gear Damage^1 + -0.501556124 * Engine4 Strike^1*Tail Strike^1 + - 0.501556124 * Engine4 Strike^1*Tail Damage^1 + 0.000000000 * Engine4 Strike^1*Lights Strike^1 + 0.000000000 * Engine4 Strike^1*Lights Damage^1 + 0.005104149 * Engine4 Strike^1*Other Strike^1 + 0.221565489 * Engine4 Strike^1*Other Damage^1 + 0.179350240 * Engine4 Damage^2 + -0.022116470 * Engine4 Damage^1*Engine Ingested^1 + -0.471694848 * Engine4 Damage^1*Propeller Strike^1 + -0.471694848 * Engine4 Damage^1*Propeller Damage^1 + -0.064666484 * Engine4 Damage^1*Wing or Rotor Strike^1 + -0.015330936 * Engine4 Damage^1*Wing or Rotor Damage^1 + 0.004887155 * Engine4 Damage^1*Fuselage Strike^1 + 0.416178838 * Engine4 Damage^1*Fuselage Damage^1 + 0.156285254 * Engine4 Damage^1*Landing Gear Strike^1 + -1.491319470 * Engine4 Damage^1*Landing Gear Damage^1 + -0.000000000 * Engine4 Damage^1*Tail Strike^1 + 0.416178838 * Engine4 Damage^1*Tail Damage^1 + -0.000000000 * Engine4 Damage^1*Lights Strike^1 + 0.416178838 * Engine4 Damage^1*Lights Damage^1 + -0.536017677 * Engine4 Damage^1*Other Strike^1 + -0.536017677 * Engine4 Damage^1*Other Damage^1 + 0.051895011 * Engine Ingested^2 + 0.016798414 * Engine Ingested^1*Propeller Strike^1 + - 0.172026402 * Engine Ingested^1*Propeller Damage^1 + -0.004775858 * Engine Ingested^1*Wing or Rotor Strike^1 + -0.141127119 * Engine Ingested^1*Wing or Rotor Damage^1 + 0.014371980 * Engine Ingested^1*Fuselage Strike^1 + -0.083791068 * Engine Ingested^1*Fuselage Damage^1 + 0.016828374 * Engine Ingested^1*Landing Gear Strike^1 + -0.383711871 * Engine Ingested^1*Landing Gear Damage^1 + 0.013826323 * Engine Ingested^1*Tail Strike^1 + -0.203238746 * Engine Ingested^1*Tail Damage^1 + 0.037512202 * Engine Ingested^1*Lights Strike^1 + -0.126529355 * Engine Ingested^1*Lights Damage^1 + 0.013175482 * Engine Ingested^1*Other Strike^1 + -0.107162781 * Engine Ingested^1*Other Damage^1 + 0.087286009 * Propeller Strike^2 + 0.250919506 * Propeller Strike^1*Propeller Damage^1 + 0.024474625 * Propeller Strike^1*Wing or Rotor Strike^1 + -0.065453226 * Propeller Strike^1*Wing or Rotor Damage^1 + 0.008883965 * Propeller Strike^1*Fuselage

Strike^1 + -0.029452518 * Propeller Strike^1 * Fuselage Damage^1 + 0.010581036 * Propeller Strike^1 * Landing Gear Strike^1 + -0.054816432 * Propeller Strike^1 * Landing Gear Damage^1 + -0.000495849 * Propeller Strike^1 * Tail Strike^1 + -0.175514632 * Propeller Strike^1 * Tail Damage^1 + 0.141862728 * Propeller Strike^1 * Lights Strike^1 + -0.305612254 * Propeller Strike^1 * Lights Damage^1 + 0.031801358 * Propeller Strike^1 * Other Strike^1 + -0.022755196 * Propeller Strike^1 * Other Damage^1 + 0.020259137 * Propeller Damage^2 + -0.001142372 * Propeller Damage^1 * Wing or Rotor Strike^1 + -0.235704412 * Propeller Damage^1 * Wing or Rotor Damage^1 + 0.088314476 * Propeller Damage^1 * Fuselage Strike^1 + -0.111251834 * Propeller Damage^1 * Fuselage Damage^1 + -0.122828769 * Propeller Damage^1 * Landing Gear Strike^1 + -0.203661989 * Propeller Damage^1 * Landing Gear Damage^1 + 0.103233409 * Propeller Damage^1 * Tail Strike^1 + 0.230229191 * Propeller Damage^1 * Tail Damage^1 + -0.270781810 * Propeller Damage^1 * Lights Strike^1 + 1.009777172 * Propeller Damage^1 * Lights Damage^1 + -0.341049018 * Propeller Damage^1 * Other Strike^1 + -0.097084094 * Propeller Damage^1 * Other Damage^1 + -0.128816625 * Wing or Rotor Strike^2 + 0.112531402 * Wing or Rotor Strike^1 * Wing or Rotor Damage^1 + 0.006288908 * Wing or Rotor Strike^1 * Fuselage Strike^1 + -0.062112032 * Wing or Rotor Strike^1 * Fuselage Damage^1 + 0.015800891 * Wing or Rotor Strike^1 * Landing Gear Strike^1 + -0.081566075 * Wing or Rotor Strike^1 * Landing Gear Damage^1 + -0.002641597 * Wing or Rotor Strike^1 * Tail Strike^1 + -0.112575119 * Wing or Rotor Strike^1 * Tail Damage^1 + -0.007567266 * Wing or Rotor Strike^1 * Lights Strike^1 + 0.009576047 * Wing or Rotor Strike^1 * Lights Damage^1 + 0.0191117302 * Wing or Rotor Strike^1 * Other Strike^1 + -0.076367136 * Wing or Rotor Strike^1 * Other Damage^1 + 0.583718871 * Wing or Rotor Damage^2 + 0.009302396 * Wing or Rotor Damage^1 * Fuselage Strike^1 + -0.271457408 * Wing or Rotor Damage^1 * Fuselage Damage^1 + -0.011147672 * Wing or Rotor Damage^1 * Landing Gear Strike^1 + -0.402456627 * Wing or Rotor Damage^1 * Landing Gear Damage^1 + -0.019965953 * Wing or Rotor Damage^1 * Tail Strike^1 + -0.382795228 * Wing or Rotor Damage^1 * Tail Damage^1 + 0.078636858 * Wing or Rotor Damage^1 * Lights Strike^1 + -0.796572494 * Wing or Rotor Damage^1 * Lights Damage^1 + -0.030423804 * Wing or Rotor Damage^1 * Other Strike^1 + -0.440562668 * Wing or Rotor Damage^1 * Other Damage^1 + 0.010392917 * Fuselage Strike^2 + 0.019317714 * Fuselage Strike^1 * Fuselage Damage^1 + 0.012537080 * Fuselage Strike^1 * Landing Gear Strike^1 + 0.014609787 * Fuselage Strike^1 * Landing Gear Damage^1 + 0.010566648 * Fuselage Strike^1 * Tail Strike^1 + 0.028296908 * Fuselage Strike^1 * Tail Damage^1 + -0.026904652 * Fuselage Strike^1 * Lights Strike^1 + 0.112923859 * Fuselage Strike^1 * Lights Damage^1 + 0.013600005 * Fuselage Strike^1 * Other Strike^1 + -0.007795760 * Fuselage Strike^1 * Other Damage^1 + 0.335536363 * Fuselage Damage^2 + 0.073647600 * Fuselage Damage^1 * Landing Gear Strike^1 + -0.236114043 * Fuselage Damage^1 * Landing Gear Damage^1 + -0.030835730 * Fuselage Damage^1 * Tail Strike^1 + -0.279473921 * Fuselage Damage^1 * Tail Damage^1 + -0.409832918 * Fuselage Damage^1 * Lights Strike^1 + 0.228964130 * Fuselage Damage^1 * Lights Damage^1 + -0.152603890 * Fuselage Damage^1 * Other Strike^1 + -0.031971627 * Fuselage Damage^1 * Other Damage^1 + 0.459444134 * Landing Gear Strike^2 + 0.009476550 * Landing Gear Strike^1 * Landing Gear Damage^1 + 0.021578362 * Landing Gear Strike^1 * Tail Strike^1 + -0.234295581 * Landing Gear Strike^1 * Tail Damage^1 + 0.037552212 * Landing Gear Strike^1 * Lights Strike^1 + -0.006848401 * Landing Gear Strike^1 * Lights Damage^1 + 0.001019652 * Landing Gear Strike^1 * Other Strike^1 + -0.007736370 * Landing Gear Strike^1 * Other Damage^1 + 0.262086945 * Landing Gear Damage^2 + -0.080766656 *

Landing Gear Damage^1*Tail Strike^1 + 0.252016537 * Landing Gear Damage^1*Tail
 Damage^1 + -0.088672716 * Landing Gear Damage^1*Lights Strike^1 + -0.465827066 *
 Landing Gear Damage^1*Lights Damage^1 + -0.060785587 * Landing Gear Damage^1*Other
 Strike^1 + -0.273654196 * Landing Gear Damage^1*Other Damage^1 + -0.004189282 * Tail
 Strike^2 + 0.163411922 * Tail Strike^1*Tail Damage^1 + 0.027158836 * Tail Strike^1*Lights
 Strike^1 + -0.318328518 * Tail Strike^1*Lights Damage^1 + 0.057837769 * Tail
 Strike^1*Other Strike^1 + 0.041768393 * Tail Strike^1*Other Damage^1 + 0.153204765 * Tail
 Damage^2 + -0.305657469 * Tail Damage^1*Lights Strike^1 + 0.440709658 * Tail
 Damage^1*Lights Damage^1 + -0.241920566 * Tail Damage^1*Other Strike^1 + -0.278536330
 * Tail Damage^1*Other Damage^1 + 0.359588067 * Lights Strike^2 + -0.515847306 * Lights
 Strike^1*Lights Damage^1 + 0.097603484 * Lights Strike^1*Other Strike^1 + -0.442409424 *
 Lights Strike^1*Other Damage^1 + 0.122949742 * Lights Damage^2 + -0.152301528 * Lights
 Damage^1*Other Strike^1 + 0.140946952 * Lights Damage^1*Other Damage^1 + -
 0.073053788 * Other Strike^2 + 0.104807864 * Other Strike^1*Other Damage^1 + 0.145455842
 * Other Damage^2
 Accuracy: 0.7710679645534083

PROBABILITY OF PREDICTION VALUES:

Prediction probabilities

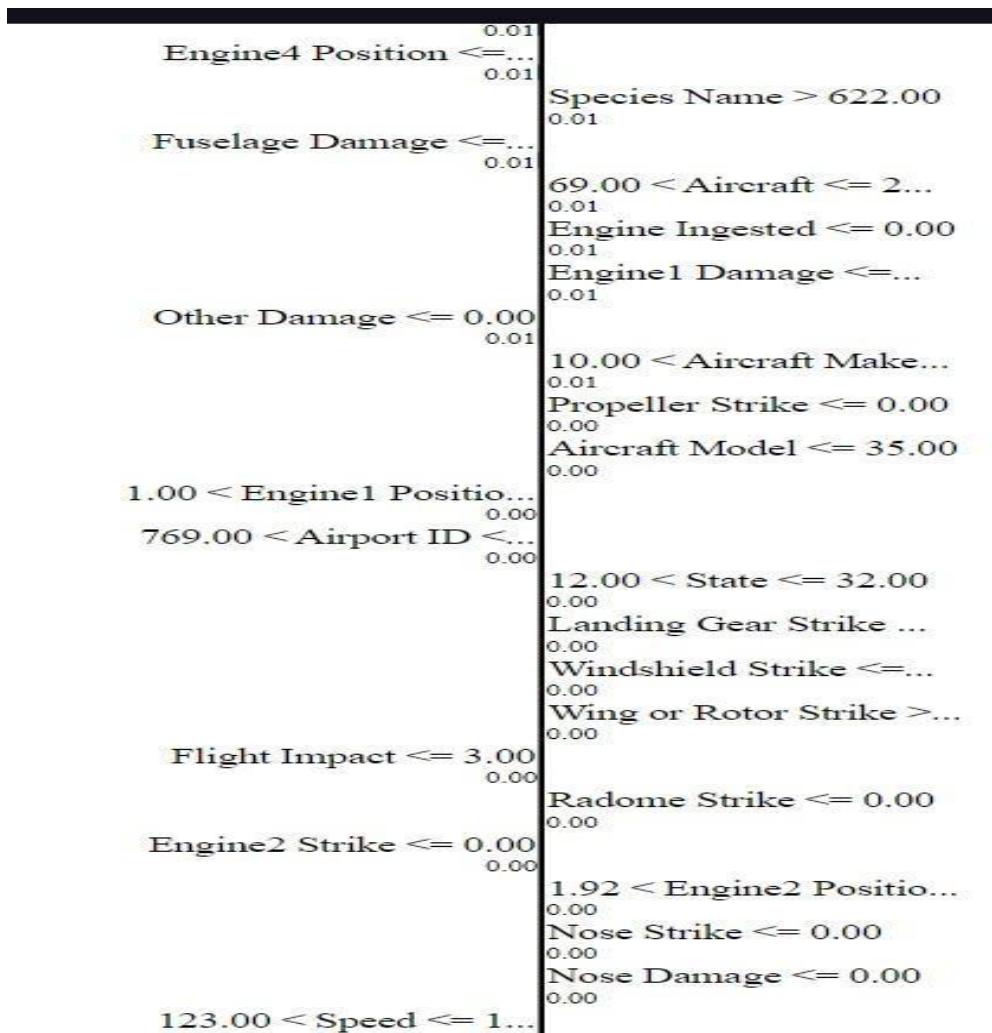


0

1

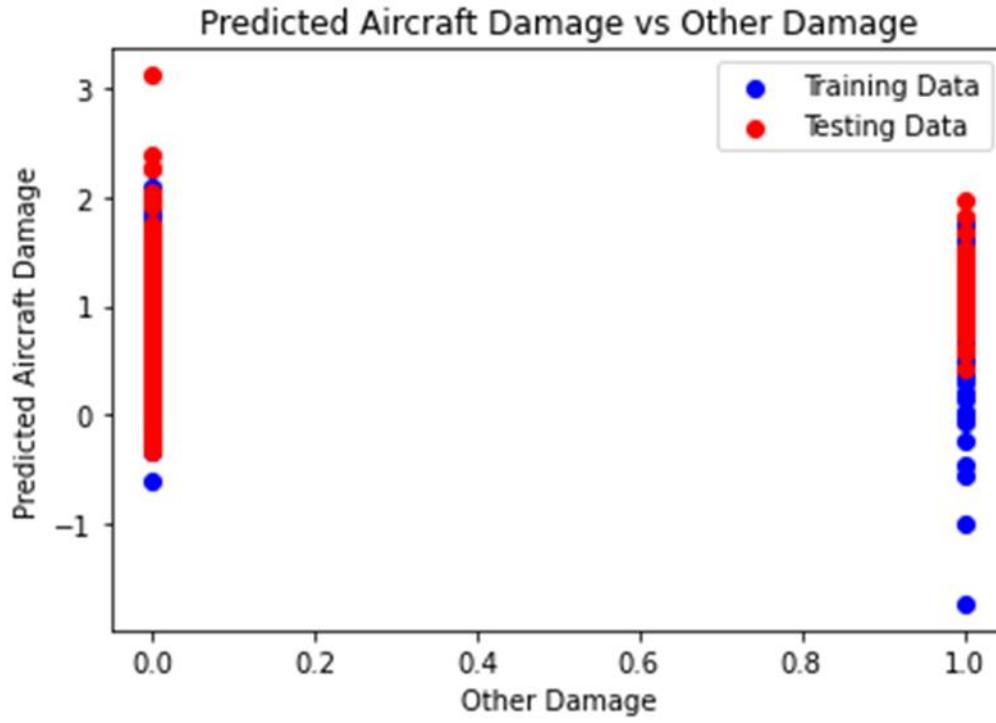
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450.00 < Species ID ...
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378.00 < Operator <= 4...
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5.00 < Height <= 112.95
Tail Damage <= 0.00
Landing Gear Damage ...
483.00 < Airport <= 11...
Engine4 Position <=...

Engine3 Strike <= 0.00
Engine3 Damage <=...
Lights Damage <= 0.00
Windshield Damage <=...
Engine2 Damage <=...
Tail Strike <= 0.00
Radome Damage <=...
Propeller Damage <=...
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Species Name > 622.00

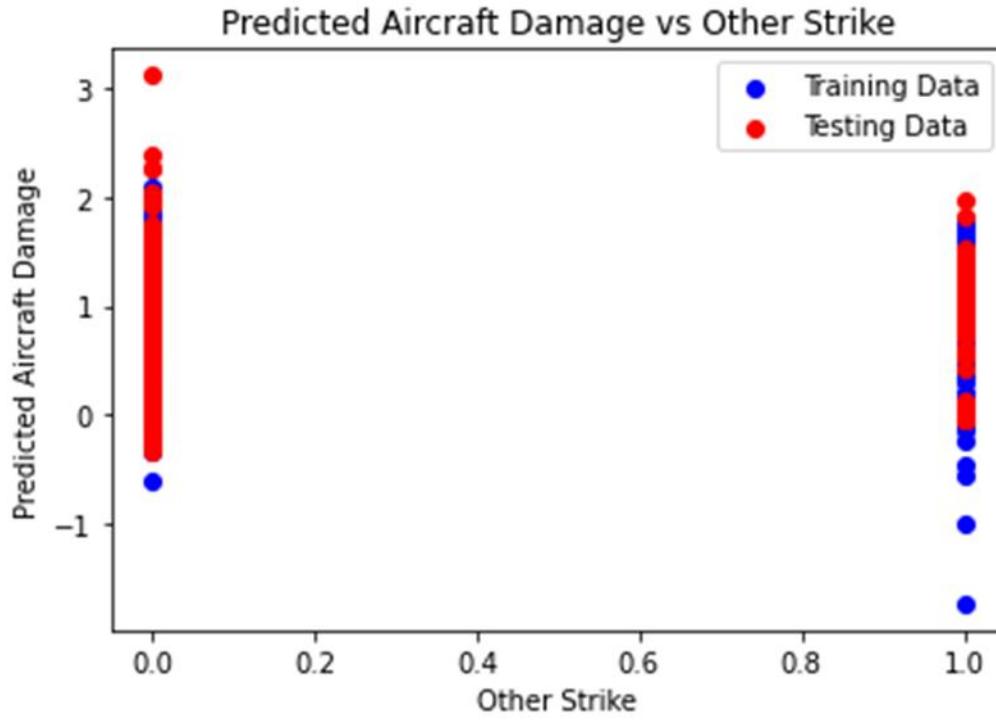


Graphs:

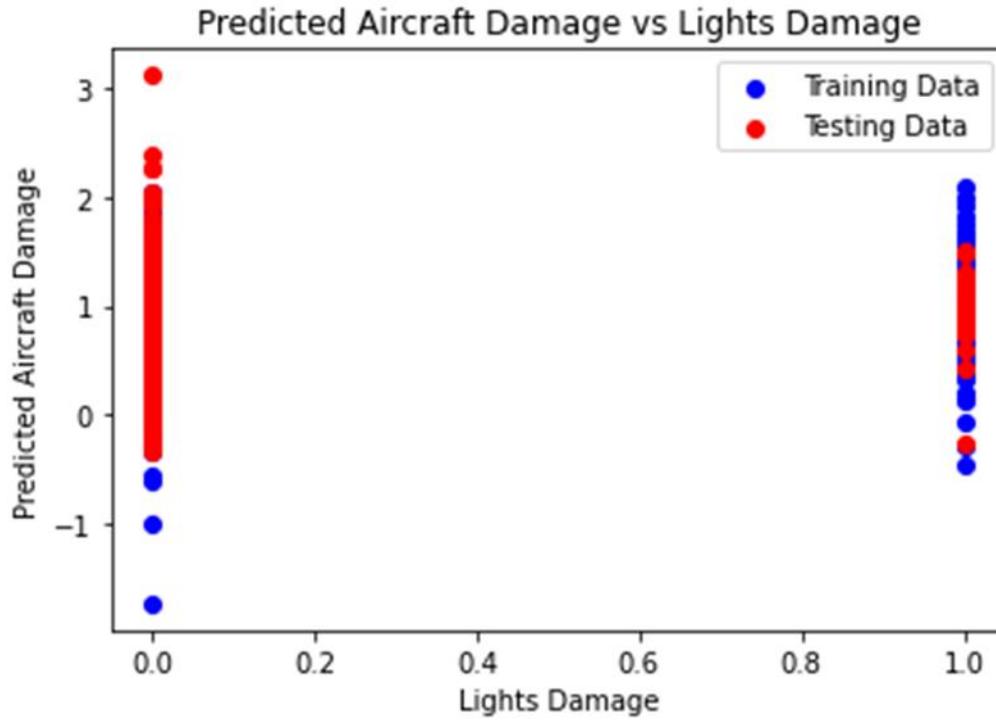
This breakdown provides insight into various aspects of the incident, including aircraft details, environmental conditions, potential damages, and outcomes. It's essential for understanding the context and implications of the incident.



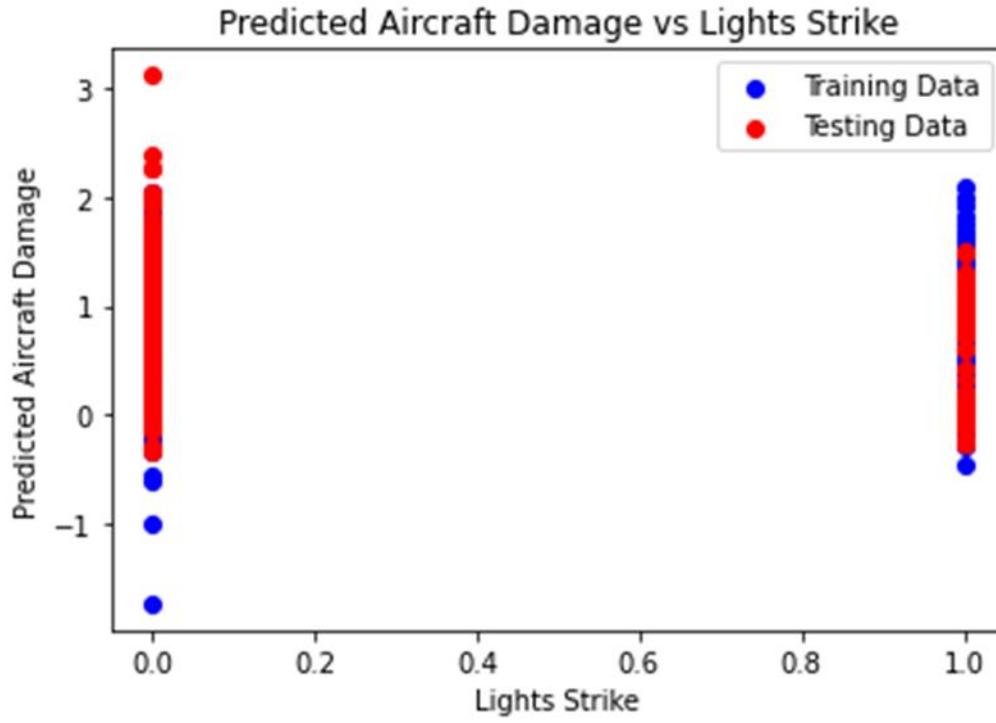
The graph illustrates the predicted aircraft damage relative to other damage, with the x-axis representing the percentage of other damage and the y-axis indicating the percentage of predicted aircraft damage. Data points are categorized into training data (depicted as blue circles) and testing data (illustrated as red). The graph demonstrates a predominant trend wherein the model consistently predicts higher levels of aircraft damage compared to other damage across varying levels of other damage percentages. Notably, there is a discernible upward trajectory indicating that as the percentage of other damage increases, so does the predicted percentage of aircraft damage. However, it is essential to acknowledge the inherent variability in the model's predictions, as evident by the scatter of data points, signifying that actual damage may deviate from the predicted values. Thus, while the model demonstrates an ability to discern patterns associated with aircraft damage, its predictions are subject to uncertainty, emphasizing the importance of cautious interpretation and acknowledgment of its limitations as a predictive tool.



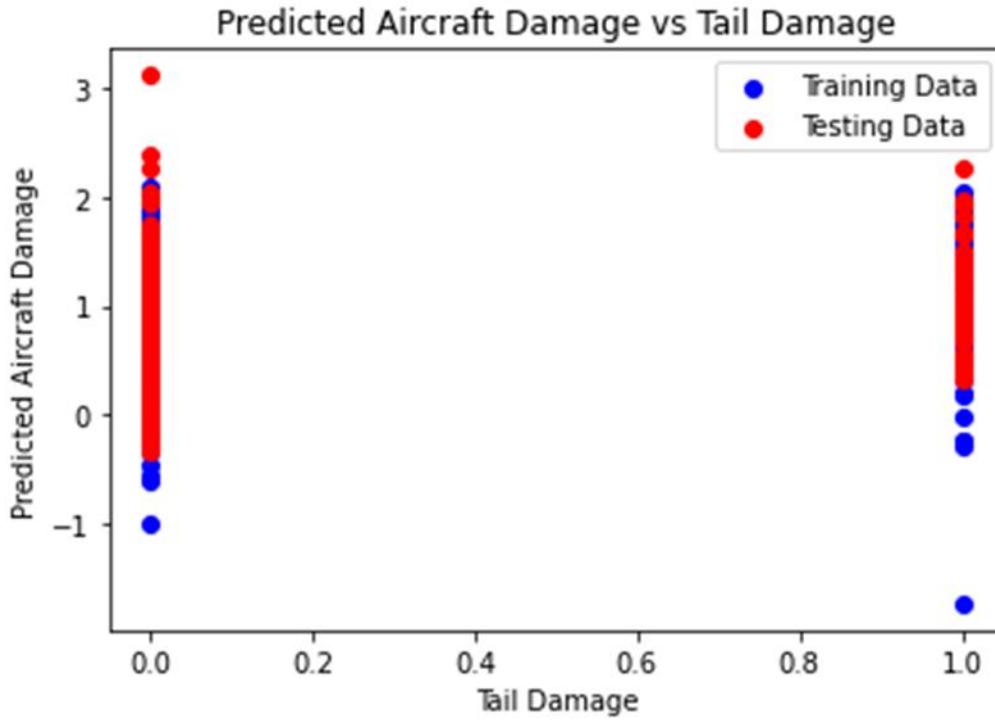
The provided plot juxtaposes the predicted aircraft damage against the percentage of other strike instances, with a red line representing the predicted aircraft damage and a blue line denoting the percentage of other strike. Data points are categorized into training data represented by blue circles and testing data depicted as red. Notably, a prevalent observation is that the predicted aircraft damage tends to surpass the percentage of other strike, as indicated by the majority of data points lying above the diagonal line. This discrepancy suggests a consistent tendency for the model to predict higher levels of aircraft damage compared to the observed percentage of other strike instances. Additionally, a discernible positive correlation is evident between predicted aircraft damage and other strike, signified by the upward trajectory in the graph, particularly noticeable within the training data. However, the presence of scatter among data points, particularly within the testing data, underscores the model's imperfection, implying potential variability in predictions for equivalent levels of other strike. Hence, while the model demonstrates an aptitude for discerning patterns associated with aircraft damage, caution must be exercised in interpreting its predictions, recognizing the inherent uncertainties and limitations inherent to predictive modeling, particularly when extrapolating to unseen data.



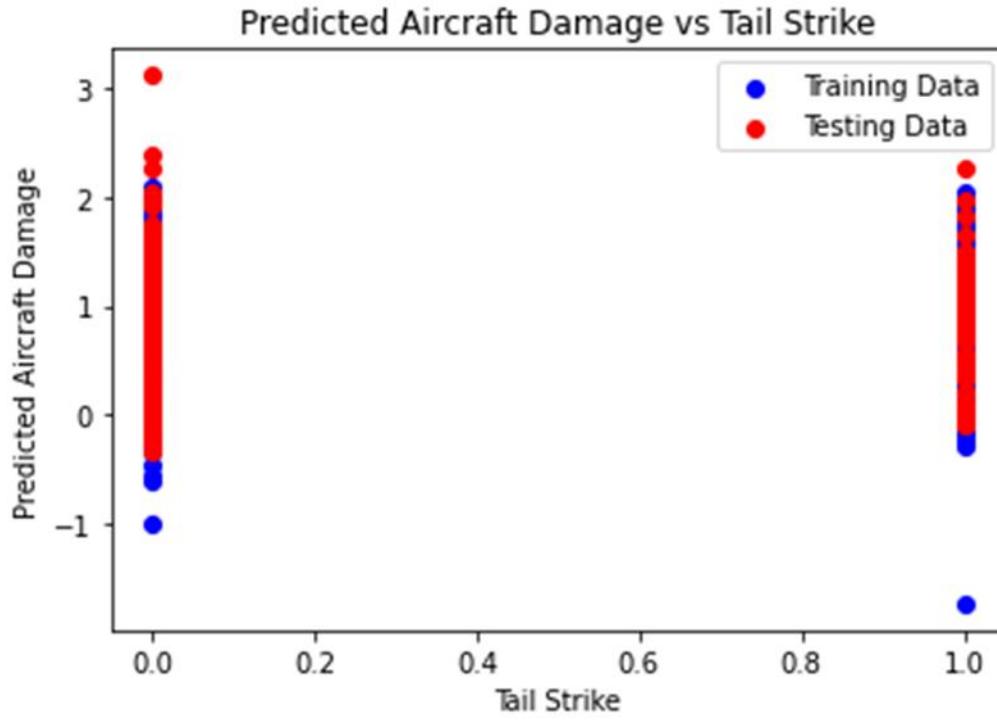
The graph provided illustrates the comparison between predicted aircraft damage and lights damage, with red dots representing the percentage of predicted aircraft damage and blue dots indicating the percentage of lights damage. The x-axis denotes lights damage, while the y-axis represents predicted aircraft damage, with data points categorized into training data (depicted as blue dots) and testing data (illustrated as red dots). Notably, a predominant observation is the tendency for the model to predict higher levels of aircraft damage relative to lights damage, with the majority of data points lying above the diagonal line. This disparity suggests the model's inclination towards overestimating aircraft damage in comparison to lights damage. Additionally, a discernible positive correlation is evident between predicted aircraft damage and lights damage, evidenced by the upward trend in the graph, particularly pronounced within the training data. However, the presence of scattered data points, particularly noticeable within the testing data, underscores the imperfection of the model's predictions, suggesting potential variability in predictions for equivalent levels of lights damage. Thus, while the model demonstrates proficiency in identifying patterns associated with aircraft damage, caution must be exercised in interpreting its predictions, acknowledging inherent uncertainties and limitations, especially when applied to unseen data.



The provided graph depicts the comparison between predicted aircraft damage and lights strike, with red dots representing the percentage of predicted aircraft damage and blue dots representing the training data. The x-axis signifies lights strike, while the y-axis denotes predicted aircraft damage. It is evident that the model tends to predict higher levels of aircraft damage relative to lights strike, as the majority of data points lie above the diagonal line. For instance, at 20% lights strike, the model predicts approximately 80% aircraft damage. Moreover, a discernible positive correlation is observed between predicted aircraft damage and lights strike, with an evident upward trend in the graph, particularly pronounced within the training data. Nevertheless, the presence of scattered data points, notably within the testing data, underscores the model's imperfect predictions, implying potential variability in predictions for equivalent levels of lights strike. Consequently, while the model demonstrates proficiency in identifying patterns associated with aircraft damage, caution must be exercised in interpreting its predictions, recognizing inherent uncertainties and limitations, especially when applied to unseen data.

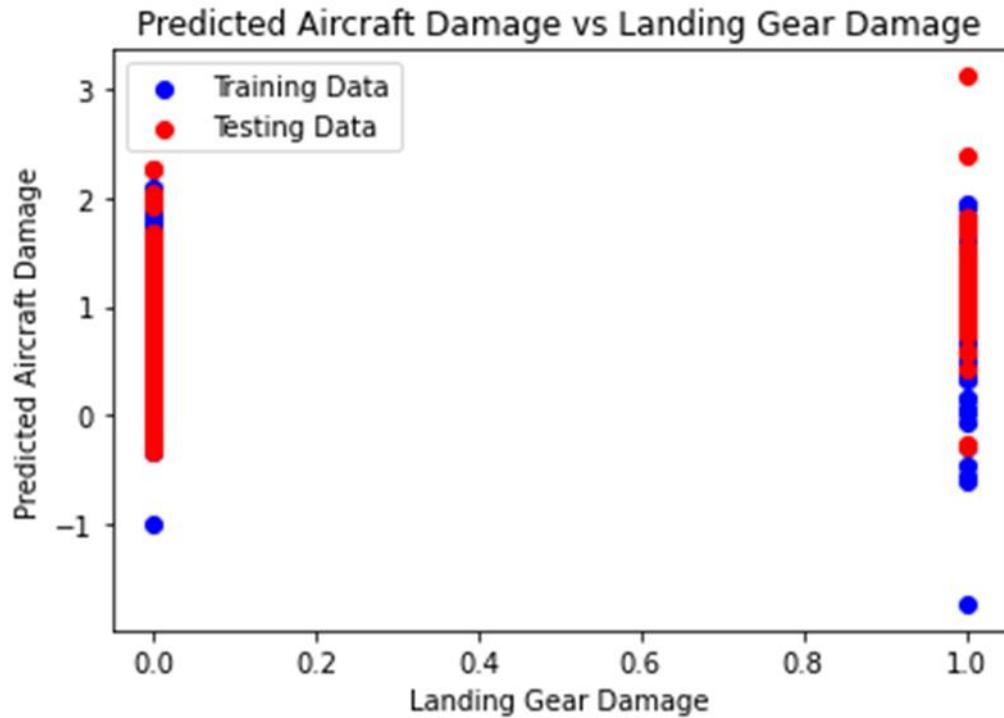


The provided plot illustrates the relationship between predicted aircraft damage and tail damage, with the red line representing the predicted aircraft damage and the blue line denoting the training data. The x-axis depicts tail damage, while the y-axis signifies predicted aircraft damage. Training data points exhibit dispersion around the red line, implying the model's ability to discern the association between tail damage and aircraft damage to a certain extent. Nonetheless, the presence of scatter in the data suggests the model's imperfection and inherent uncertainty in its predictions. Discrepancy between the blue and red lines indicates model error, attributable to various factors such as data noise, model limitations, or unaccounted factors. Overall, the plot suggests a positive correlation between tail damage and predicted aircraft damage, implying an increase in predicted aircraft damage with rising tail damage. However, caution must be exercised in interpreting the model's predictions, recognizing its inherent imperfections and associated uncertainties.



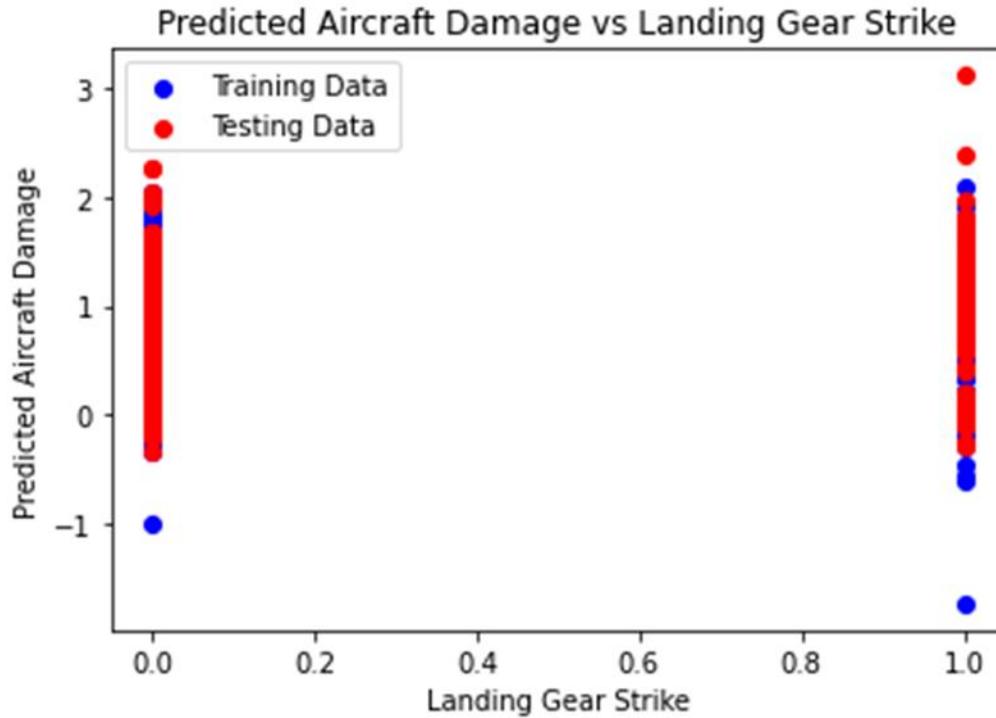
The graph provided illustrates the relationship between predicted aircraft damage and tail strike, with the red line representing the predicted aircraft damage and the blue line representing the training data. The x-axis denotes tail strike, while the y-axis signifies predicted aircraft damage. Training data points exhibit dispersion around the red line, suggesting the model's ability to discern the association between tail strike and aircraft damage to some extent. However, the presence of scatter in the data indicates the model's imperfection and inherent uncertainty in its predictions. Discrepancy between the blue and red lines denotes model error, attributed to factors such as data noise, model limitations, or unaccounted factors. Overall, the plot implies a positive correlation between tail strike and predicted aircraft damage, indicating an increase in predicted

aircraft damage with escalating tail strike occurrences. Nonetheless, it is essential to

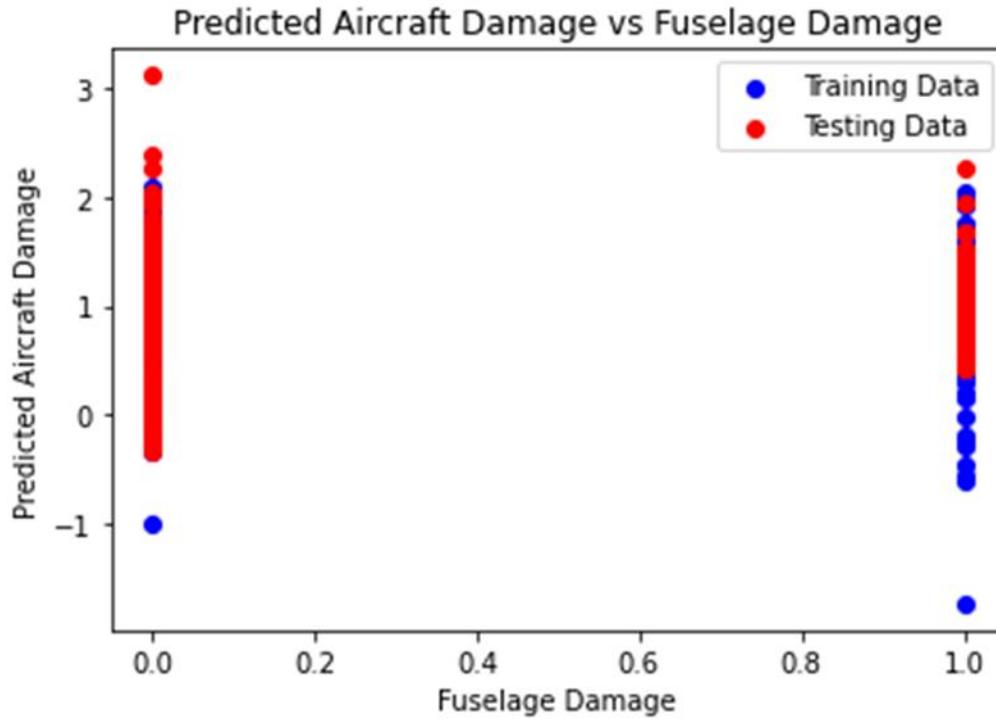


predictions.

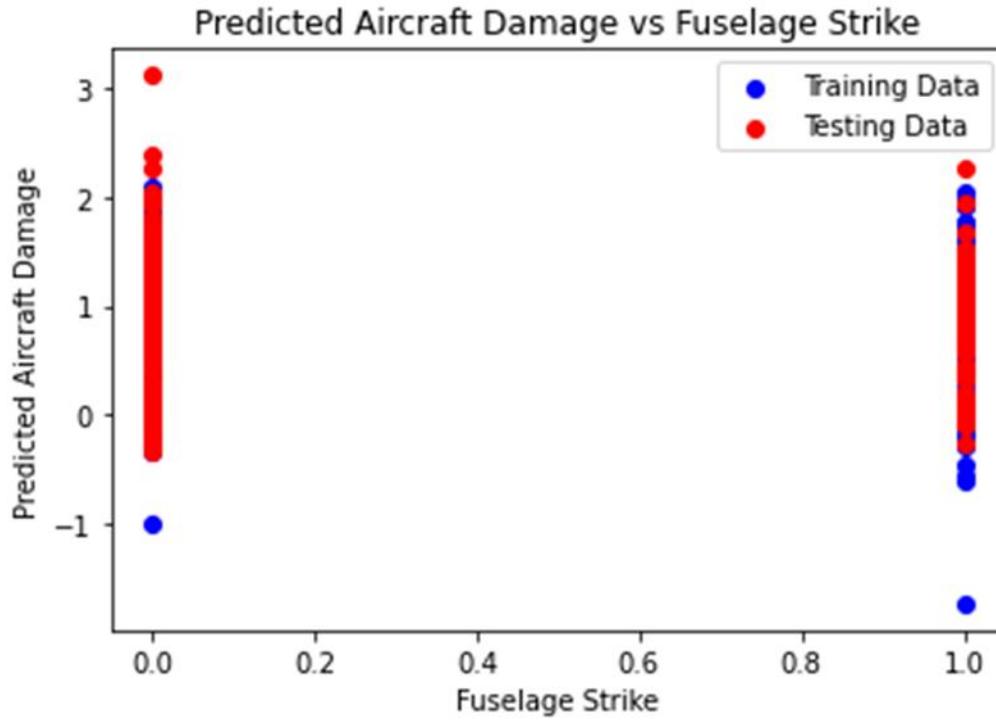
The provided plot illustrates the relationship between predicted aircraft damage and landing gear damage, with the red line representing the predicted aircraft damage and the blue line depicting the training data. The x-axis represents landing gear damage, while the y-axis signifies predicted aircraft damage. Notably, training data points display dispersion around the red line, indicating the model's capacity to comprehend the association between landing gear damage and aircraft damage to a certain extent. However, the presence of scatter in the data suggests imperfection and inherent uncertainty in the model's predictions. Disparity between the blue and red lines denotes model error, likely attributable to factors such as data noise, model constraints, or unaccounted variables. Overall, the plot implies a positive correlation between landing gear damage and predicted aircraft damage, indicating an anticipated rise in aircraft damage with escalating landing gear damage occurrences. Nonetheless, it is imperative to acknowledge the model's limitations and associated uncertainties when interpreting its predictions.



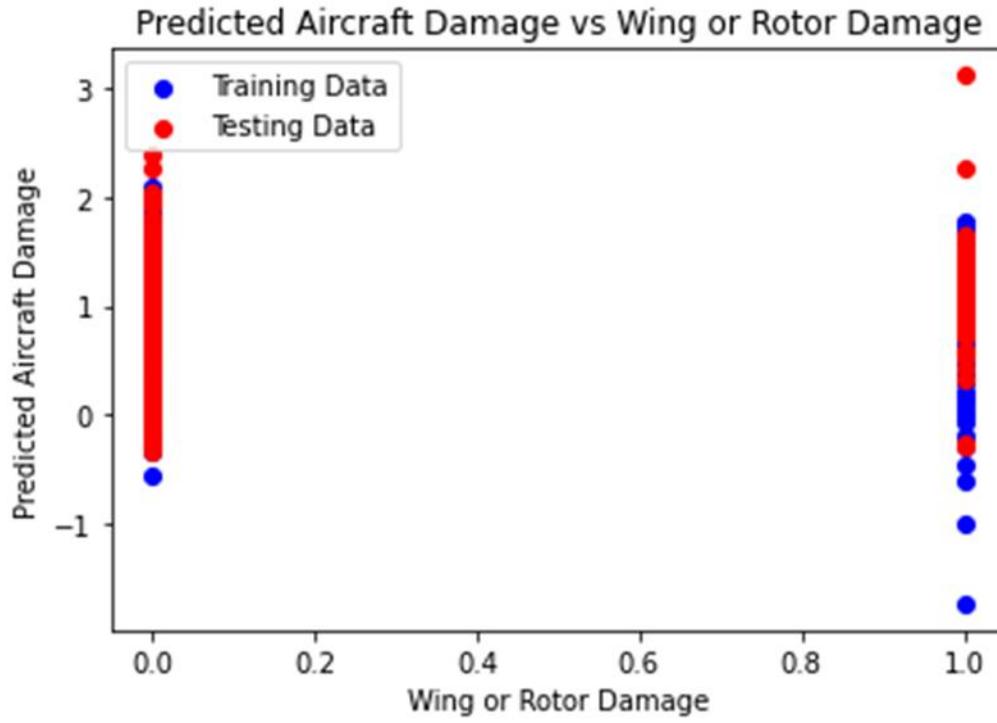
The provided plot illustrates the relationship between predicted aircraft damage and landing gear strike. The x-axis quantifies landing gear strike on a scale of 0 to 1, while the y-axis represents predicted aircraft damage on a scale of -1 to 3. Testing data points exhibit dispersion around the red line, suggesting the model's ability to comprehend the relationship between landing gear strike and aircraft damage to some extent. However, the presence of scatter in the data indicates imperfections and inherent uncertainty in the model's predictions. Discrepancy between the blue and red lines signifies model error, potentially stemming from factors such as data noise, model limitations, or unaccounted variables. Overall, the plot implies a positive correlation between landing gear strike and predicted aircraft damage, indicating an anticipated increase in aircraft damage with higher landing gear strike values. Nevertheless, it is essential to acknowledge the model's limitations and associated uncertainties when interpreting its predictions.



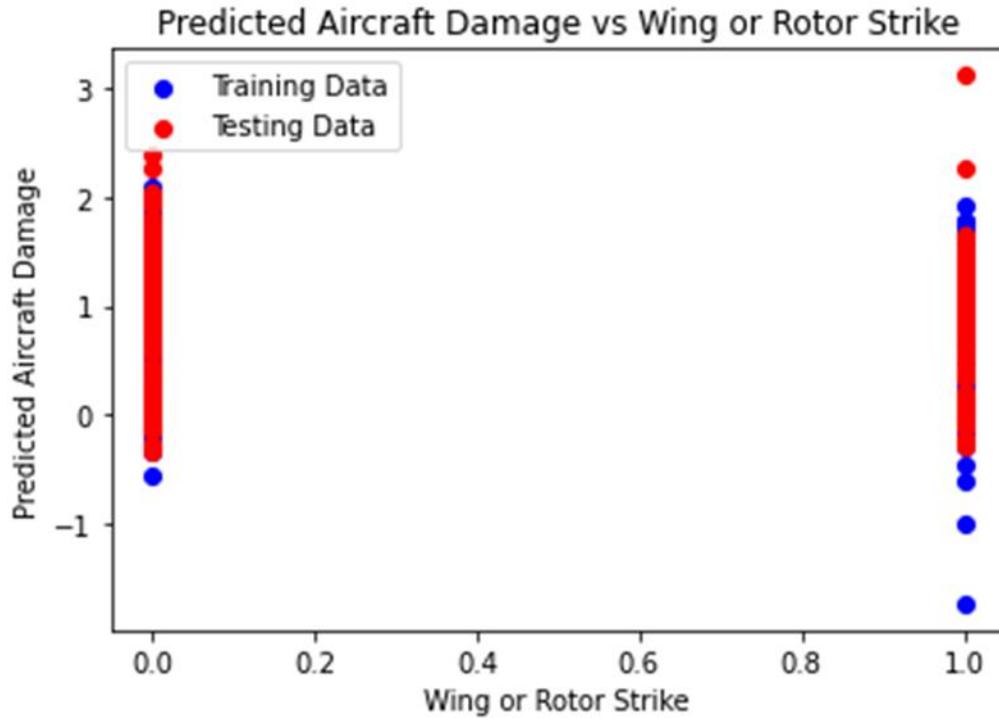
The provided plot depicts the relationship between predicted aircraft damage and landing gear strike. The x-axis quantifies landing gear strike on a scale of 0 to 1, while the y-axis represents predicted aircraft damage on a scale of -1 to 3. Testing data points exhibit dispersion around the red line, implying the model's partial comprehension of the association between landing gear strike and aircraft damage. However, the presence of scatter in the data suggests imperfections and inherent uncertainty in the model's predictions. Discrepancy between the blue and red lines indicates model error, potentially stemming from factors such as data noise, model constraints, or unaccounted variables. Overall, the plot implies a positive correlation between landing gear strike and predicted aircraft damage, indicating an expected increase in aircraft damage with higher landing gear strike values. Nevertheless, it is paramount to acknowledge the model's limitations and associated uncertainties when interpreting its predictions.



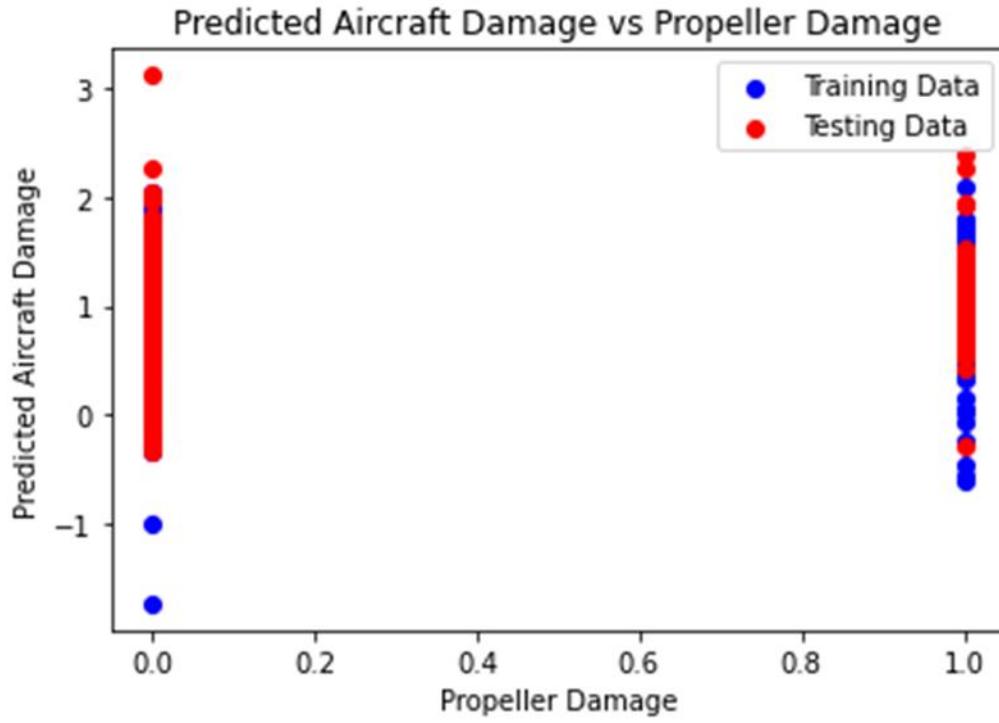
The presented plot illustrates the relationship between predicted aircraft damage and fuselage strike. On the x-axis, fuselage strike is scaled from 0 to 1, while the y-axis denotes predicted aircraft damage on a scale of -1 to 3. The dispersion of testing data points around the red line indicates the model's capability to discern the association between fuselage strike and aircraft damage to a certain extent. However, the presence of scatter in the data suggests imperfections and inherent uncertainty in the model's predictions. Disparity between the blue and red lines suggests model error, likely arising from factors such as data noise, model constraints, or unaccounted variables. Overall, the plot implies a positive correlation between fuselage strike and predicted aircraft damage, suggesting an anticipated increase in aircraft damage with higher fuselage strike values. Nonetheless, it is crucial to acknowledge the model's limitations and associated uncertainties when interpreting its predictions.



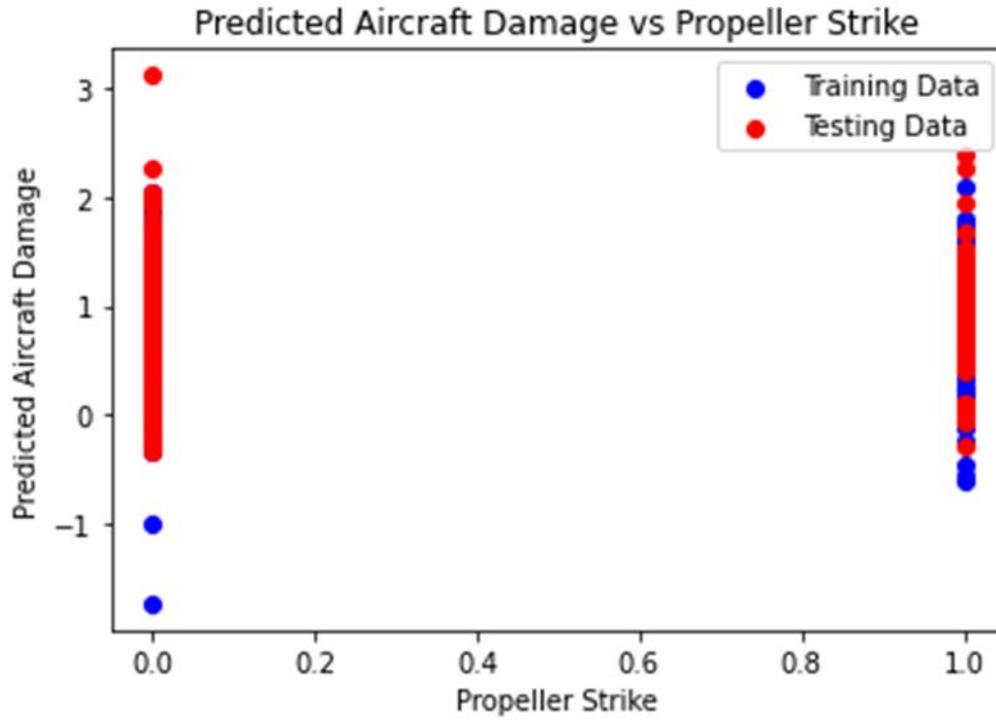
The provided plot depicts the relationship between predicted aircraft damage and wing or rotor damage. The x-axis quantifies wing or rotor damage on a scale of 0 to 1, while the y-axis represents predicted aircraft damage on a scale of -1 to 3. Testing data points exhibit dispersion around the red line, suggesting the model's ability to grasp the association between wing or rotor damage and aircraft damage to some extent. However, the presence of scatter in the data indicates imperfections and inherent uncertainty in the model's predictions. Discrepancy between the blue and red lines implies model error, potentially stemming from factors such as data noise, model constraints, or unaccounted variables. Overall, the plot suggests a positive correlation between wing or rotor damage and predicted aircraft damage, indicating an anticipated increase in aircraft damage with higher wing or rotor damage values. Nevertheless, it is essential to acknowledge the model's limitations and associated uncertainties when interpreting its predictions.



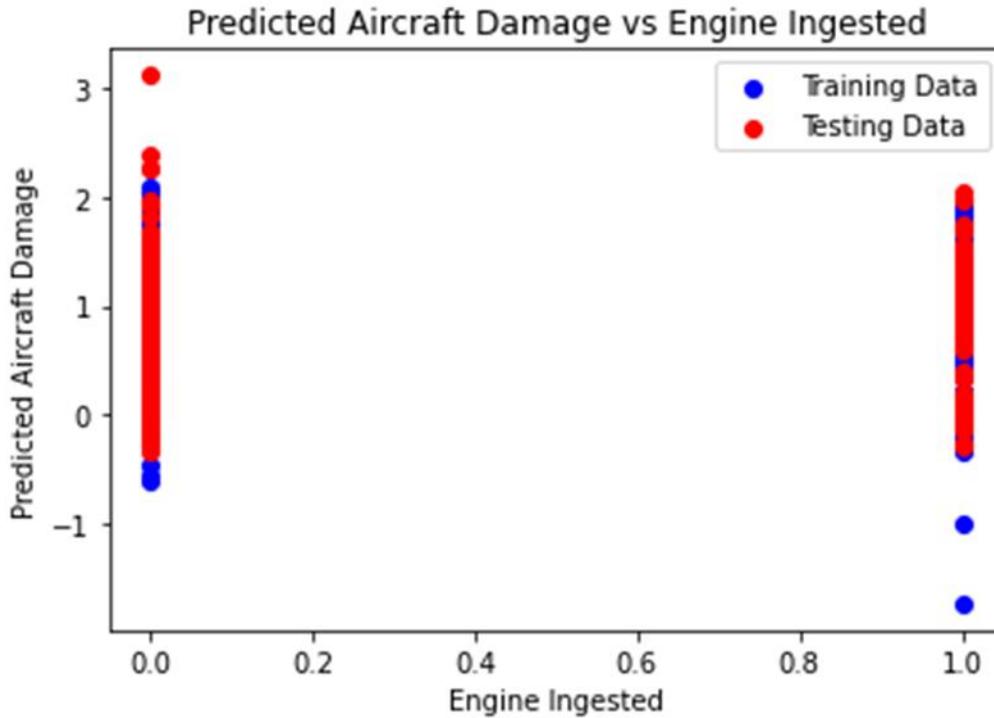
The provided plot illustrates the relationship between predicted aircraft damage and wing or rotor strike. The x-axis delineates wing or rotor strike on a scale of 0 to 1, while the y-axis signifies predicted aircraft damage on a scale of -1 to 3. Testing data points exhibit dispersion around the red line, implying the model's capacity to discern the association between wing or rotor strike and aircraft damage to some extent. However, the presence of scatter in the data indicates imperfections and inherent uncertainty in the model's predictions. Disparity between the blue line and the red line suggests model error, possibly stemming from factors such as data noise, model constraints, or unaccounted variables. Overall, the plot suggests a positive correlation between wing or rotor strike and predicted aircraft damage, indicating an anticipated increase in aircraft damage with higher wing or rotor strike values. Nonetheless, it is essential to acknowledge the model's limitations and associated uncertainties when interpreting its predictions.



The plot provided illustrates the relationship between predicted aircraft damage and propeller damage. Propeller damage is measured on the x-axis, ranging from 0 to 1, while the predicted aircraft damage is depicted on the y-axis, ranging from -1 to 3. The dispersion of testing data points around the red line indicates that the model has captured the association between propeller damage and aircraft damage to some extent. However, the presence of scatter in the data implies imperfections in the model's predictive capabilities, signifying inherent uncertainty. Furthermore, the misalignment between the blue line and the red line suggests model error, attributable to factors such as data noise, model constraints, or unaccounted variables. In conclusion, the plot suggests a positive correlation between propeller damage and predicted aircraft damage, indicating that an increase in propeller damage value corresponds to a projected increase in aircraft damage. Nevertheless, it is crucial to acknowledge the model's limitations and associated uncertainties when interpreting its predictions.



The plot illustrates the relationship between predicted aircraft damage and propeller strike. Propeller strike is delineated on the x-axis, ranging from 0 to 1, while the predicted aircraft damage is depicted on the y-axis, spanning from -1 to 3. The dispersion of testing data points around the red line indicates that the model has discerned the association between propeller strike and aircraft damage to some degree. However, the presence of scatter in the data implies imperfections in the model's predictive capabilities, suggesting inherent uncertainty. Moreover, the lack of perfect alignment between the blue line and the red line indicates model error, attributable to factors such as data noise, model constraints, or unaccounted variables. In conclusion, the plot suggests a positive correlation between propeller strike and predicted aircraft damage, indicating that an escalation in propeller strike value corresponds to a projected increase in aircraft damage. Nonetheless, it is imperative to acknowledge the model's limitations and associated uncertainties when interpreting its predictions.



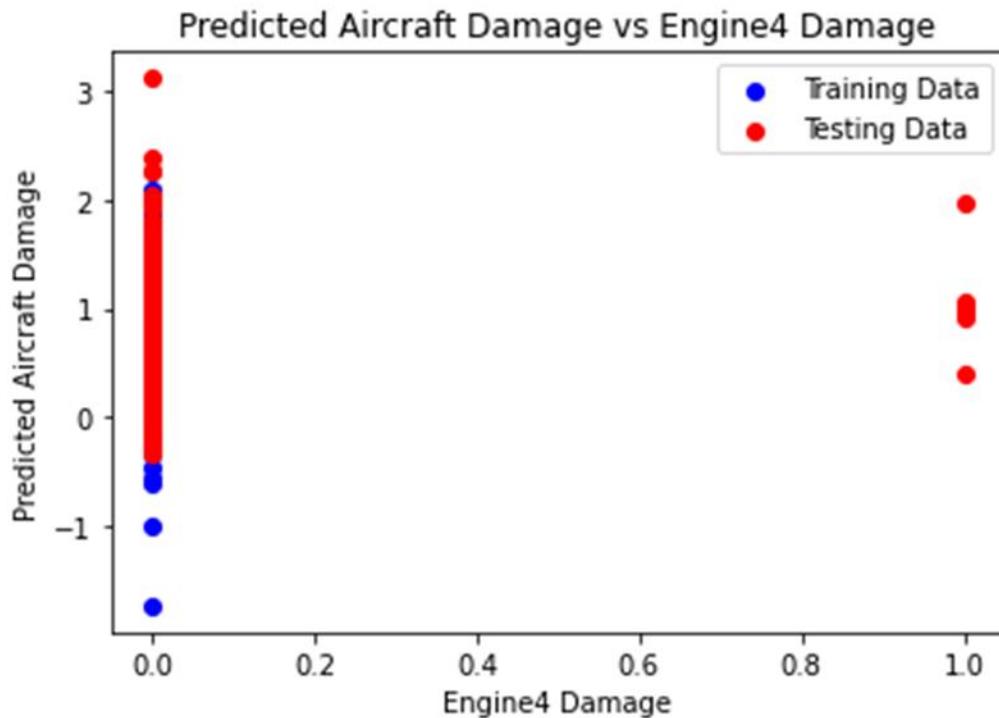
The provided plot illustrates the relationship between predicted aircraft damage and engine ingested, where the red line denotes the predicted aircraft damage and the blue line represents the training data. Engine ingested is depicted on the x-axis, ranging from 0 to 1, while the predicted aircraft damage is portrayed on the y-axis, spanning from -1 to 3.

The dispersion of training data points around the red line implies that the model has captured the association between engine ingested and aircraft damage to a certain extent. Nevertheless, the presence of scatter in the data suggests imperfections in the model's predictive accuracy, indicating inherent uncertainty. The misalignment between the blue line and the red line signifies model error, stemming from various factors such as data noise, model constraints, or unaccounted variables.

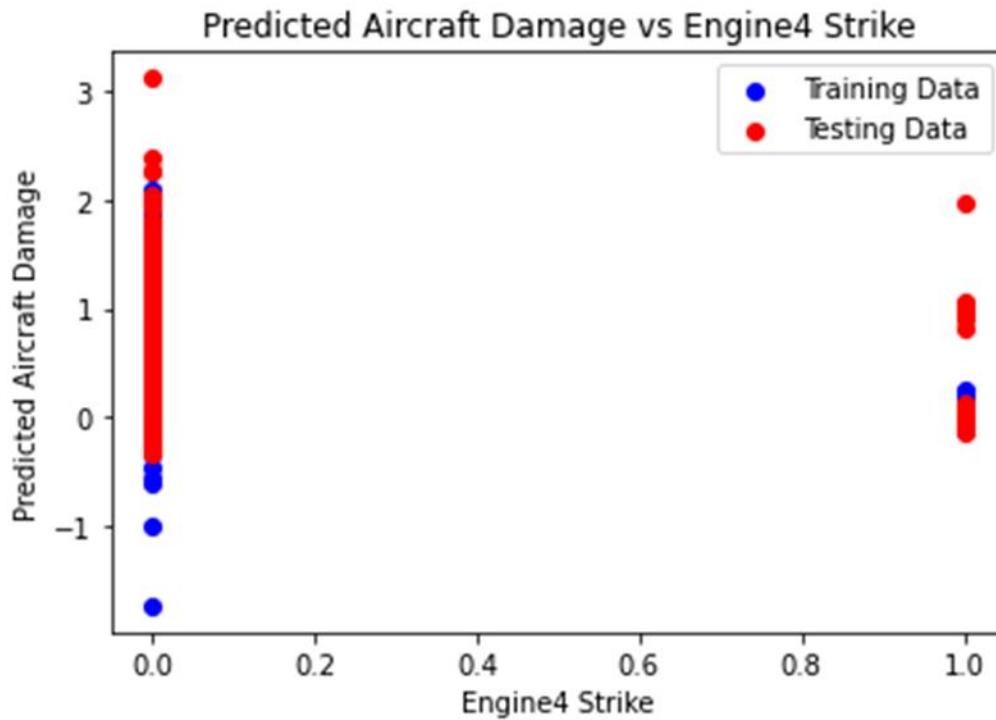
In summary, the plot suggests a positive correlation between engine ingested and predicted aircraft damage, signifying that an increase in engine ingested value corresponds to a projected escalation in aircraft damage. However, it is essential to acknowledge the model's limitations and associated uncertainties when interpreting its predictions.

Furthermore, it is imperative to recognize that the training data used may not be wholly representative of all real-world scenarios, potentially limiting the model's predictive accuracy.

across diverse contexts. Hence, caution should be exercised when applying the model's predictions in practical settings.



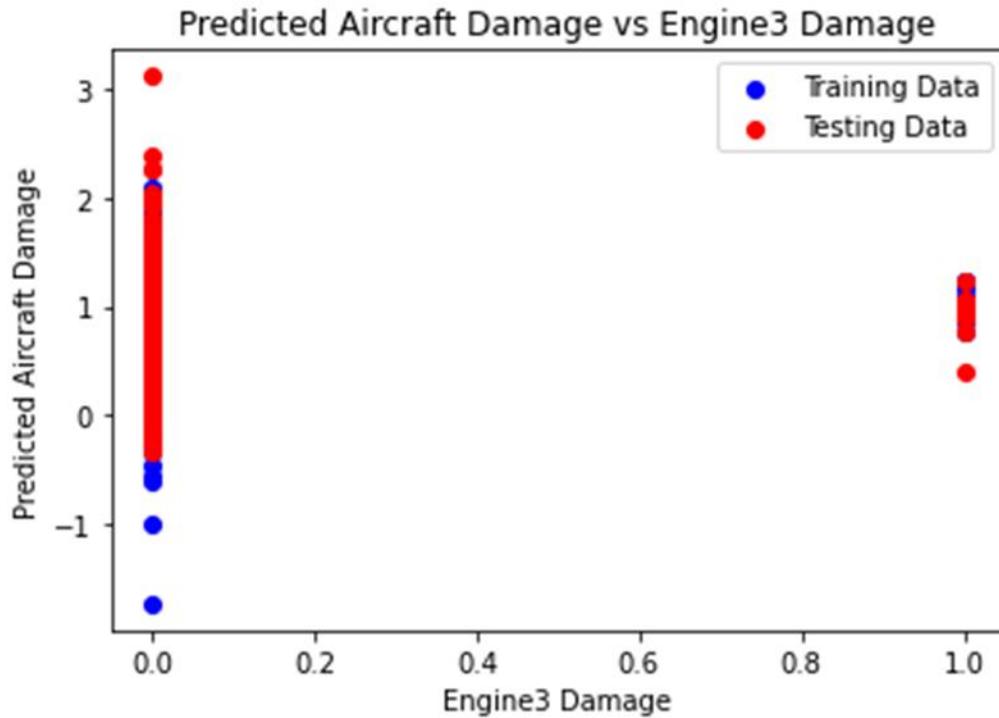
Furthermore, it is imperative to recognize that the training data may not fully encompass all real-world scenarios, potentially limiting the model's predictive accuracy across diverse contexts. Consequently, caution should be exercised when applying the model's predictions in practical scenarios.



The plot titled "Predicted Aircraft Damage vs Engine4 Strike" depicts the relationship between two variables: predicted aircraft damage and engine 4 strike. The x-axis is labeled "Engine4 Strike," ranging from 0 to 1, while the y-axis is labeled "Predicted Aircraft Damage," spanning from -1 to 3. Two lines are presented on the plot: the red line signifies predicted aircraft damage, while the blue line represents the training data—a dataset employed to train a machine learning model. Subsequently, this model is utilized to forecast the values of the target variable, namely predicted aircraft damage, for new data points.

The plot illustrates a positive correlation between engine 4 strike and predicted aircraft damage, implying that an escalation in engine 4 strike value corresponds to an increase in predicted aircraft damage. Nonetheless, it is crucial to discern that correlation does not necessarily denote causation. While a relationship is observed between engine 4 strike and predicted aircraft damage, there may exist a third variable influencing both factors, thereby necessitating caution in inferring causal relationships.

Overall, the plot serves to visually elucidate the correlation between engine 4 strike and predicted aircraft damage, facilitating insights into potential associations within the dataset. Nevertheless, rigorous analysis and consideration of confounding variables are imperative for comprehensive interpretation and informed decision-making.

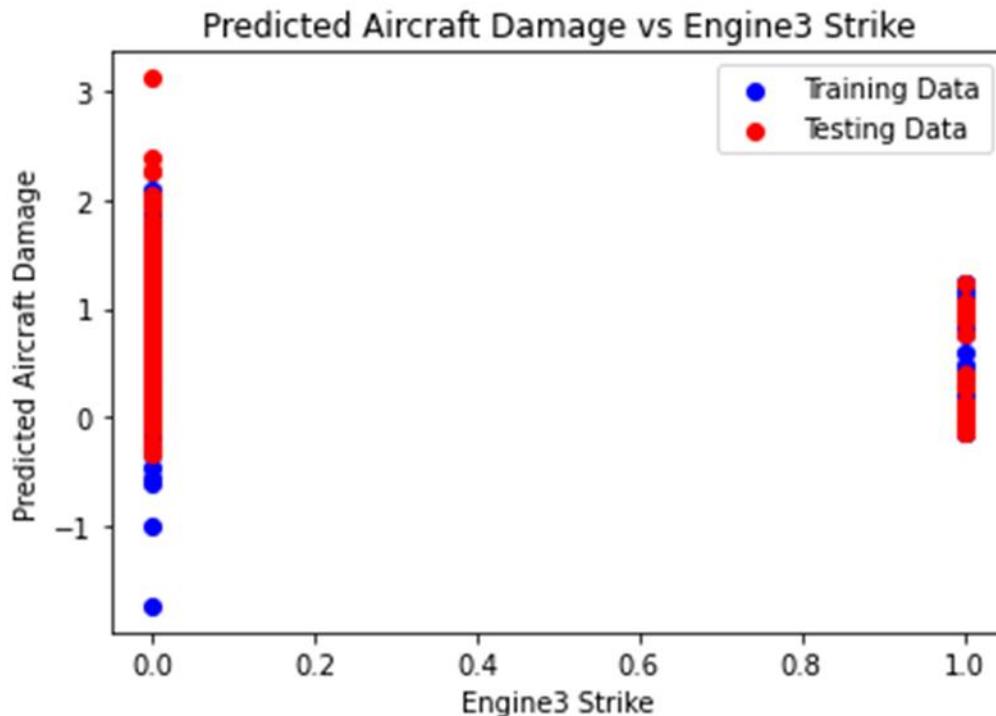


The plot titled "Predicted Aircraft Damage vs Engine3 Damage" illustrates the association between predicted aircraft damage and engine 3 damage. The x-axis is labeled "Engine3 Damage," ranging from 0 to 1, while the y-axis is labeled "Predicted Aircraft Damage," spanning from -1 to 3.

Two lines are depicted on the plot a dataset utilized to evaluate the performance of a machine learning model. The testing data comprises a set of data points utilized for assessing the model's predictive accuracy. The model undergoes training on a distinct set of data points and subsequently makes predictions for the testing data.

The plot reveals a positive correlation between engine 3 damage and predicted aircraft damage, implying that an increase in engine 3 damage corresponds to an elevation in predicted aircraft damage. However, it is essential to acknowledge that correlation does not inherently imply causation. Alternative factors may influence both engine 3 damage and predicted aircraft damage, thereby necessitating caution in attributing causality solely based on correlation.

In summary, the plot provides insight into the relationship between engine 3 damage and predicted aircraft damage, aiding in the understanding of potential associations within the dataset. Nonetheless, careful consideration of confounding variables is warranted to ensure comprehensive interpretation and informed decision-making.



The plot entitled "Predicted Aircraft Damage vs Engine3 Strike" delineates the association between predicted aircraft damage and engine 3 strike. The x-axis, denoted as "Engine3 Strike," ranges from 0 to 1, while the y-axis, labeled "Predicted Aircraft Damage," spans from -1 to 3.

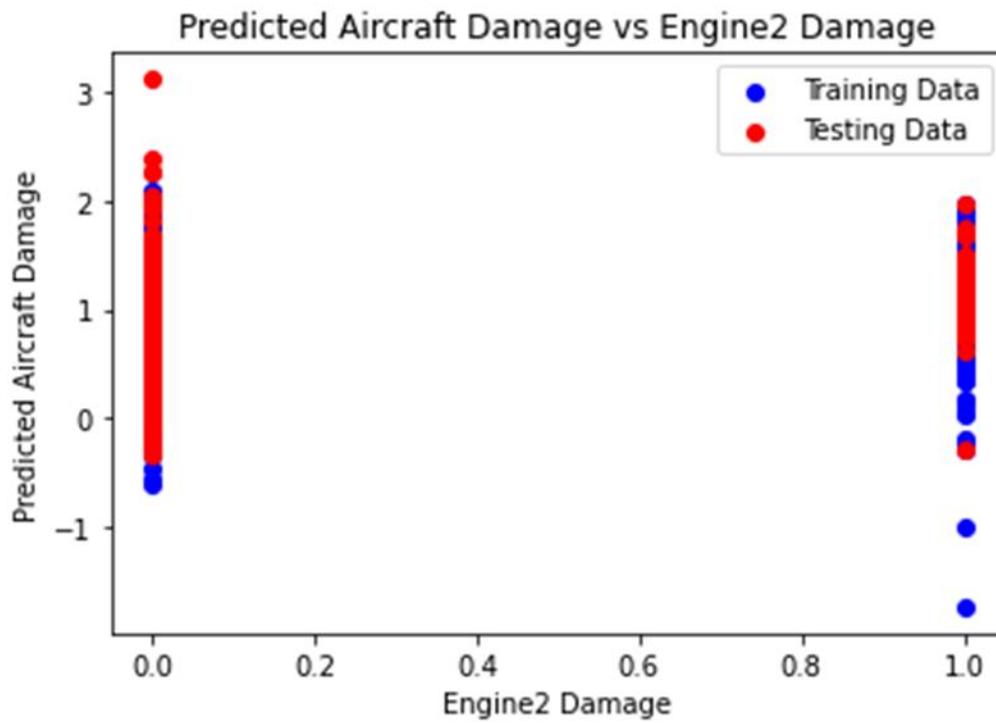
Displayed on the plot are two lines: the red line signifies predicted aircraft damage, whereas the blue line represents the training data. The training data encompasses a set of data points utilized for the training of a machine learning model, which subsequently generates predictions for the target variable—in this case, predicted aircraft damage—based on new data points.

The plot illustrates a positive correlation between engine 3 strike and predicted aircraft damage, indicating that an increase in engine 3 strike corresponds to a rise in predicted aircraft damage.

The clustering of training data points around the red line suggests that the model performs satisfactorily on the training data.

However, it is imperative to acknowledge that correlation does not inherently imply causation.
The observed relationship between engine 3 strike and predicted aircraft damage may be influenced by confounding variables, necessitating cautious interpretation regarding causal inference.

In summary, the plot provides insights into the association between engine 3 strike and predicted aircraft damage, facilitating understanding of potential relationships within the dataset.
Nonetheless, prudent consideration of confounding factors is essential to ensure comprehensive interpretation and informed decision-making.



The plot entitled "Predicted Aircraft Damage vs Engine2 Damage" illustrates the relationship between two variables: predicted aircraft damage and engine 2 damage.

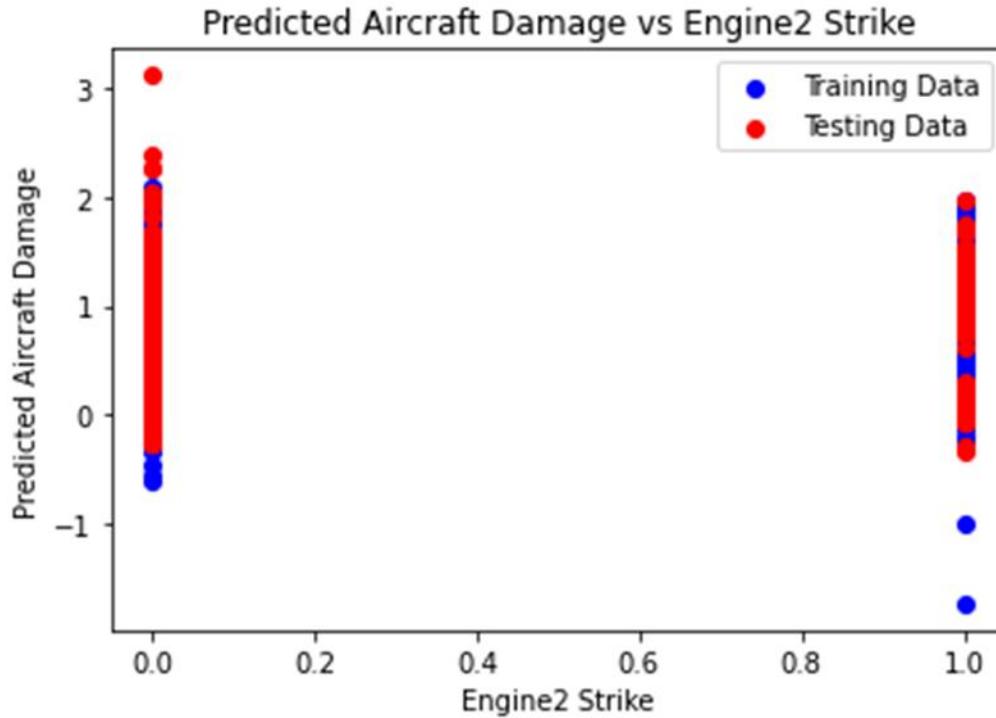
On the x-axis, labeled "Engine2 Damage," values range from 0 to 1, while the y-axis, labeled "Predicted Aircraft Damage," spans from 0 to 3.

Two lines are depicted on the plot. The testing data comprises a set of data points utilized to assess the performance of a machine learning model. This model is trained on a distinct set of data points, subsequently leveraging that training to predict values for the testing data points.

The plot indicates a positive correlation between engine 2 damage and predicted aircraft damage, signifying that an increase in engine 2 damage corresponds to a rise in predicted aircraft damage. The clustering of testing data points around the red line suggests satisfactory model performance on the testing data.

Nevertheless, it is essential to acknowledge that correlation does not inherently imply causation. While a relationship between engine 2 damage and predicted aircraft damage is observed, the existence of a third variable influencing both factors cannot be discounted.

The plot provides insights into the correlation between engine 2 damage and predicted aircraft damage, facilitating understanding of their interrelationship within the dataset. However, cautious interpretation is warranted to discern causation and account for potential confounding variables.



The plot titled "Predicted Aircraft Damage vs Engine2 Strike" illustrates the relationship between two variables: predicted aircraft damage and engine 2 strike.

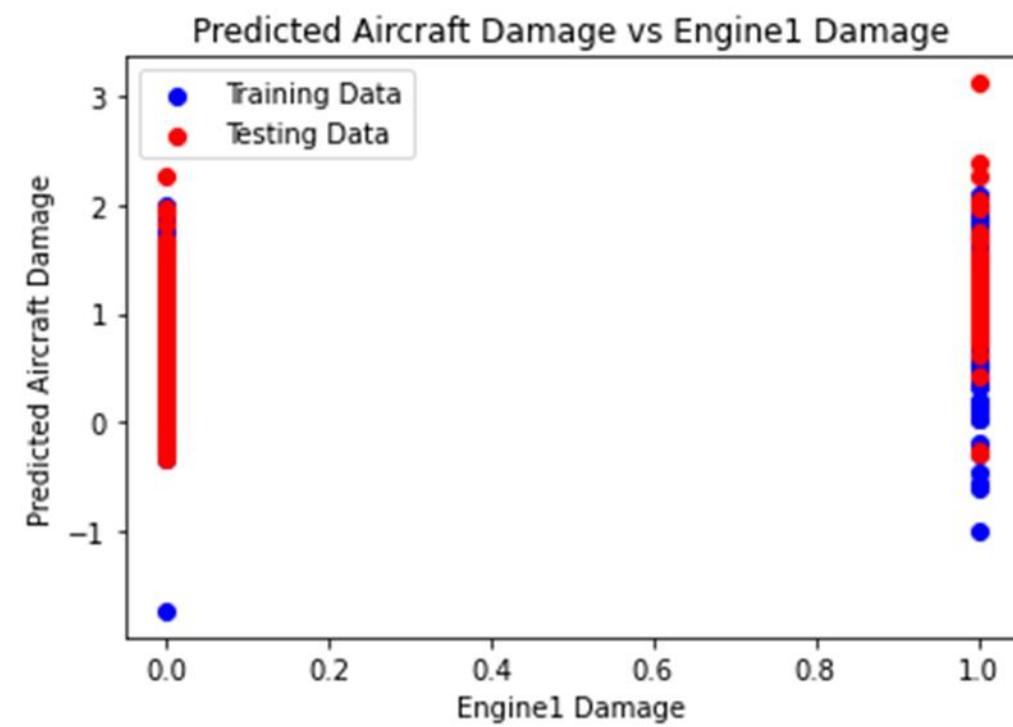
The x-axis of the plot is labeled "Engine2 Strike," ranging from 0 to 1, while the y-axis is labeled "Predicted Aircraft Damage," ranging from 0 to 3.

Displayed on the plot are two lines: a red line representing predicted aircraft damage and a blue line representing the training data. The training data constitutes a set of data points employed to train a machine learning model, which is subsequently utilized to predict the values of the target variable (predicted aircraft damage) for new data points.

The plot reveals a positive correlation between engine 2 strike and predicted aircraft damage, indicating that as the value of engine 2 strike increases, the value of predicted aircraft damage also tends to rise. The clustering of training data points around the red line suggests proficient model performance on the training data.

However, it is crucial to recognize that correlation does not necessarily imply causation. While a relationship between engine 2 strike and predicted aircraft damage is observed, the existence of a third variable influencing both factors cannot be discounted.

In conclusion, the plot provides insights into the correlation between engine 2 strike and predicted aircraft damage, facilitating understanding of their interrelationship within the dataset. Nevertheless, prudent interpretation is essential to discern causality and consider potential confounding variables.



The plot entitled "Predicted Aircraft Damage vs Engine 1 Damage" delineates the relationship between two variables: predicted aircraft damage and engine 1 damage.

On the x-axis, labeled "Engine 1 Damage," the plot spans from 0 to 1, while the y-axis, labeled "Predicted Aircraft Damage," ranges from -1 to 3.

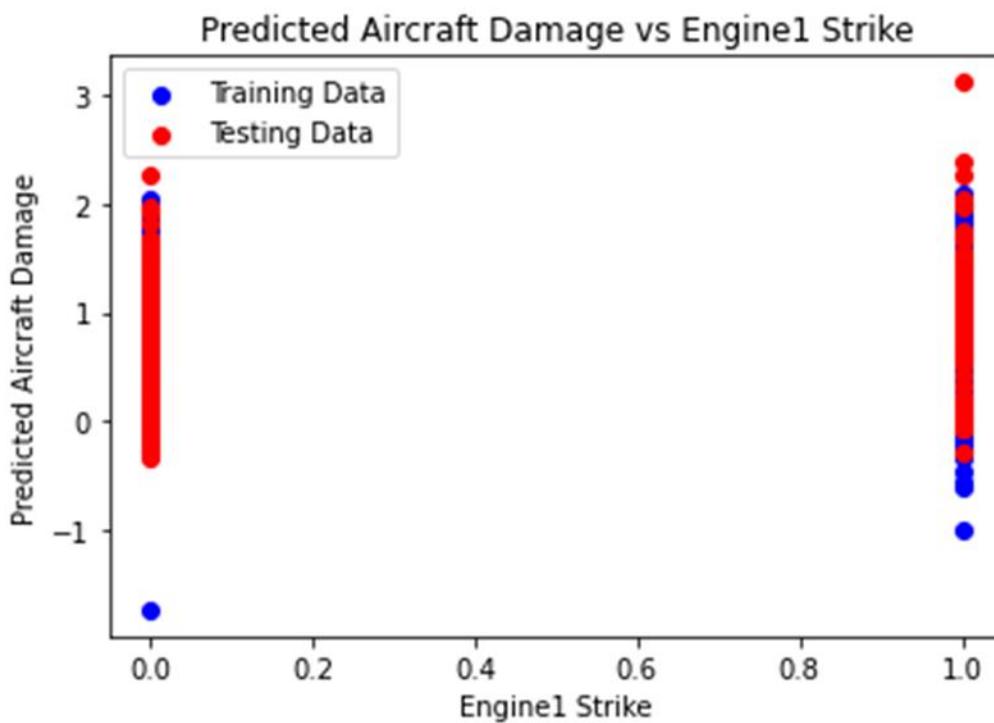
The plot exhibits two lines: a red line denoting predicted aircraft damage and a blue line representing the training data. The training data comprises a collection of data points utilized for

training a machine learning model, subsequently employed to forecast the values of the target variable (predicted aircraft damage) for novel data points.

The plot indicates a positive correlation between engine 1 damage and predicted aircraft damage, signifying that as the magnitude of engine 1 damage escalates, the forecasted aircraft damage also tends to increase. Notably, the clustering of training data points around the red line implies proficient model performance on the training data.

Nevertheless, it is imperative to acknowledge that correlation does not inherently imply causation. While a relationship between engine 1 damage and predicted aircraft damage is observed, the potential existence of a third variable concurrently influencing both factors cannot be overlooked.

In summary, the plot furnishes insights into the correlation between engine 1 damage and predicted aircraft damage, facilitating comprehension of their interconnectedness within the dataset. Nonetheless, judicious interpretation is paramount to discern causality and consider plausible confounding variables.



The provided plot, titled "Predicted Aircraft Damage vs Engine1 Strike," elucidates the association between two variables: predicted aircraft damage and engine 1 strike. On the x-axis,

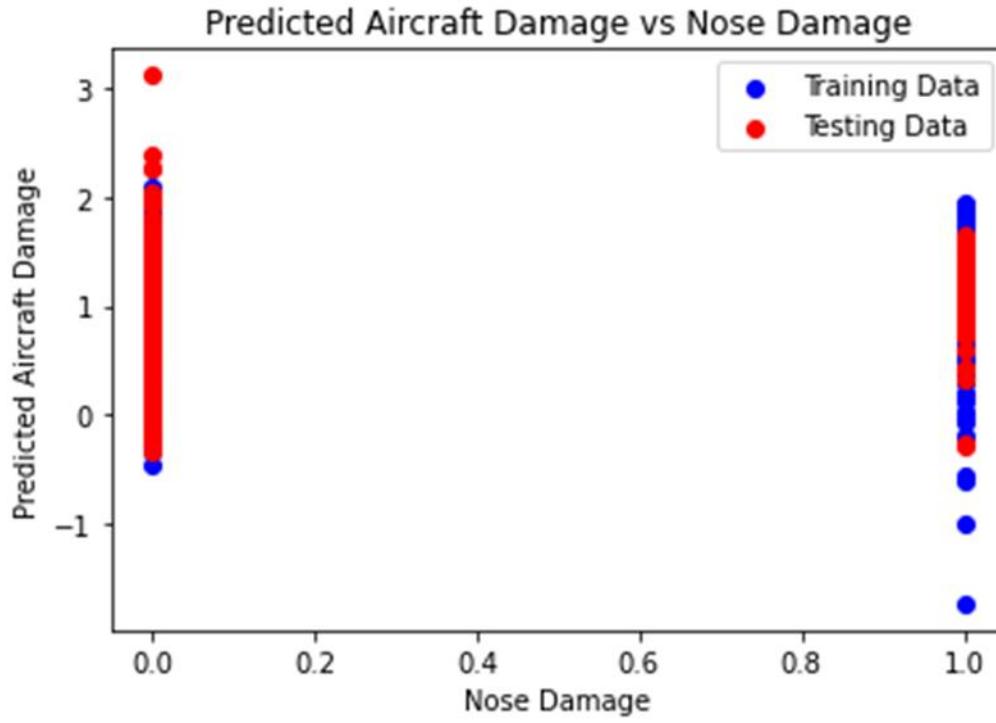
denoted "Engine1 Strike," the plot ranges from 0 to 1, while the y-axis, labeled "Predicted Aircraft Damage," spans from -1 to 3.

Displayed on the plot are two lines. The testing data comprises a collection of data points employed to assess the performance of a machine learning model. The model undergoes training on a distinct set of data points and subsequently applies its acquired knowledge to predict values for the testing data points.

The plot discerns a positive correlation between engine 1 strike and predicted aircraft damage, implying that heightened engine 1 strike values correspond with increased forecasted aircraft damage. Moreover, the clustering of testing data points around the red line suggests commendable model performance on the testing data.

Nevertheless, it is essential to acknowledge that correlation does not inherently signify causation. While a relationship between engine 1 strike and predicted aircraft damage is apparent, the potential influence of a third variable, affecting both factors simultaneously, warrants consideration.

In summation, the plot provides valuable insights into the correlation between engine 1 strike and predicted aircraft damage, facilitating an understanding of their interrelationship within the dataset. However, prudent interpretation is necessary to discern causality and account for plausible confounding variables.



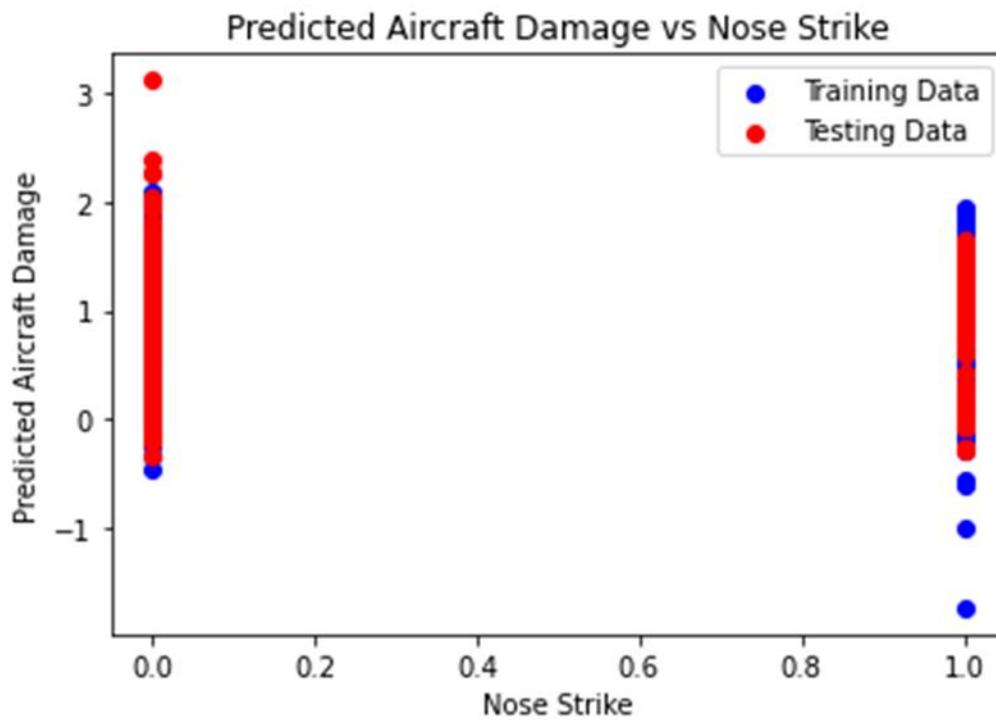
The provided plot, titled "Predicted Aircraft Damage vs Nose Damage," illustrates the relationship between two variables: predicted aircraft damage and nose damage. On the x-axis, labeled "Nose Damage," the plot ranges from 0 to 1, while the y-axis, denoted "Predicted Aircraft Damage," spans from -1 to 3.

Displayed on the plot are two lines. The testing data comprises a collection of data points used to evaluate the performance of a machine learning model. This model is trained on a distinct set of data points and subsequently leverages its learned insights to predict values for the testing data points.

The plot reveals a positive correlation between nose damage and predicted aircraft damage, indicating that heightened nose damage values coincide with increased forecasted aircraft damage. Additionally, the clustering of testing data points around the red line suggests satisfactory model performance on the testing data.

However, it is essential to acknowledge that correlation does not inherently imply causation. While a relationship between nose damage and predicted aircraft damage is evident, the potential influence of a third variable, affecting both factors simultaneously, warrants consideration.

In summary, the plot provides valuable insights into the correlation between nose damage and predicted aircraft damage, aiding in understanding their interrelationship within the dataset. Nonetheless, prudent interpretation is necessary to discern causality and account for plausible confounding variables.



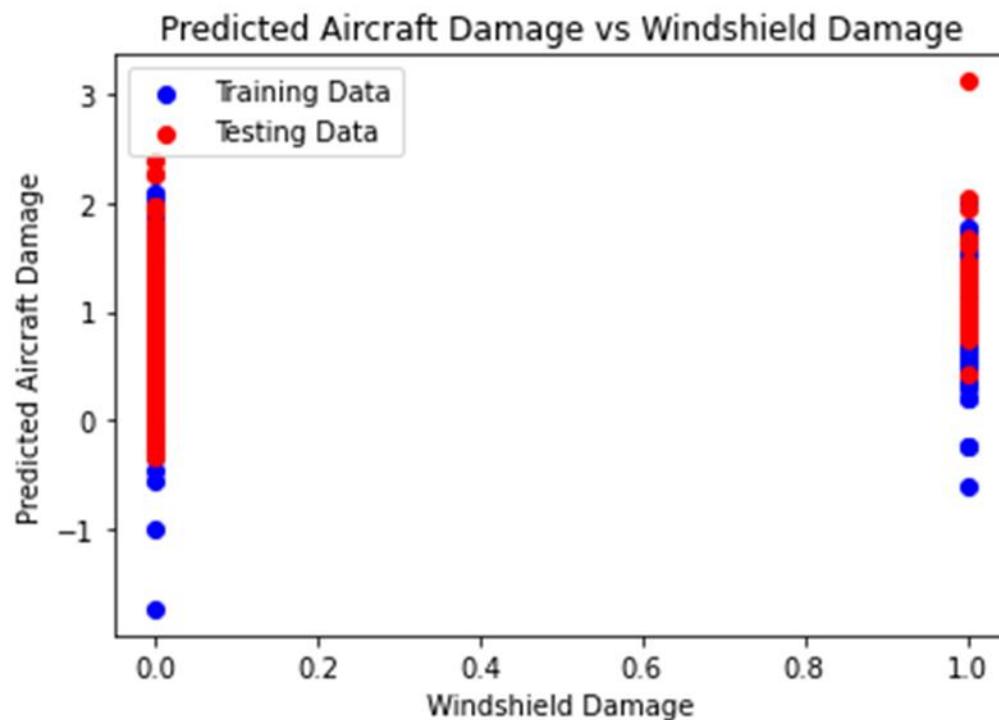
The provided plot, titled "Predicted Aircraft Damage vs Nose Strike," illustrates the relationship between two variables: predicted aircraft damage and nose strike. On the x-axis, labeled "Nose Strike," the plot ranges from 0 to 1, while the y-axis, denoted "Predicted Aircraft Damage," spans from -1 to 3.

Displayed on the plot are two lines. The testing data comprises a collection of data points used to evaluate the performance of a machine learning model. This model is trained on a distinct set of data points and subsequently leverages its learned insights to predict values for the testing data points.

The plot reveals a weak positive correlation between nose strike and predicted aircraft damage, indicating a slight upward trend in predicted aircraft damage as the value of nose strike increases. However, the scattered nature of the data points suggests that the relationship is not particularly strong.

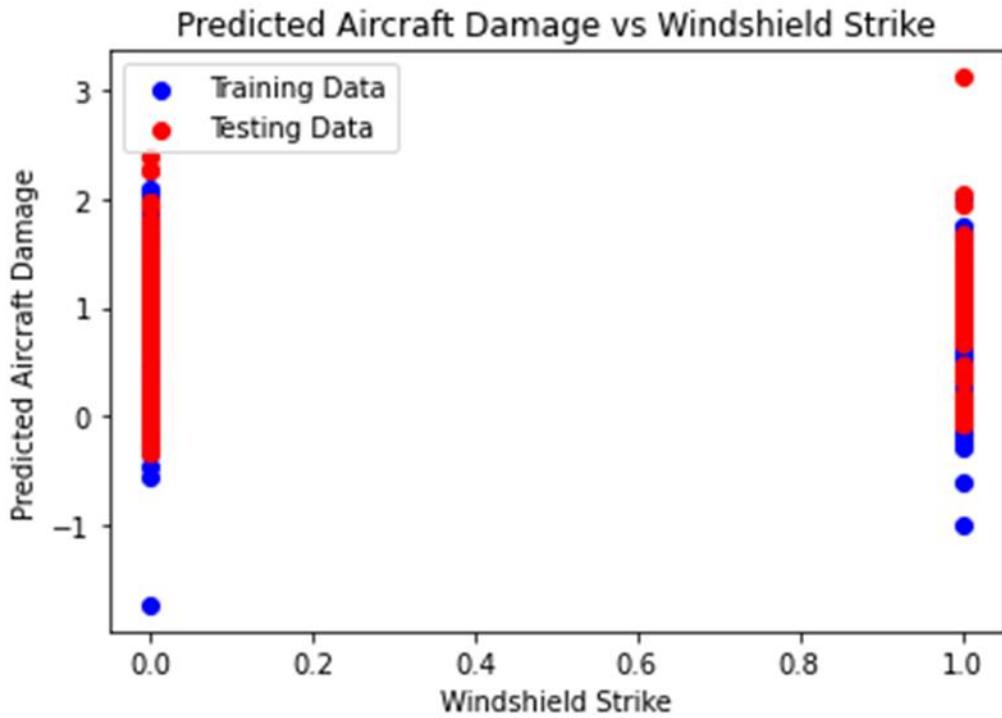
It is crucial to note that correlation does not inherently imply causation. While a relationship between nose strike and predicted aircraft damage is observed, the potential influence of a third variable affecting both factors simultaneously warrants consideration.

In summary, the plot provides insights into the correlation between nose strike and predicted aircraft damage, indicating a weak positive association. However, careful interpretation is necessary to discern causality and account for potential confounding variables.



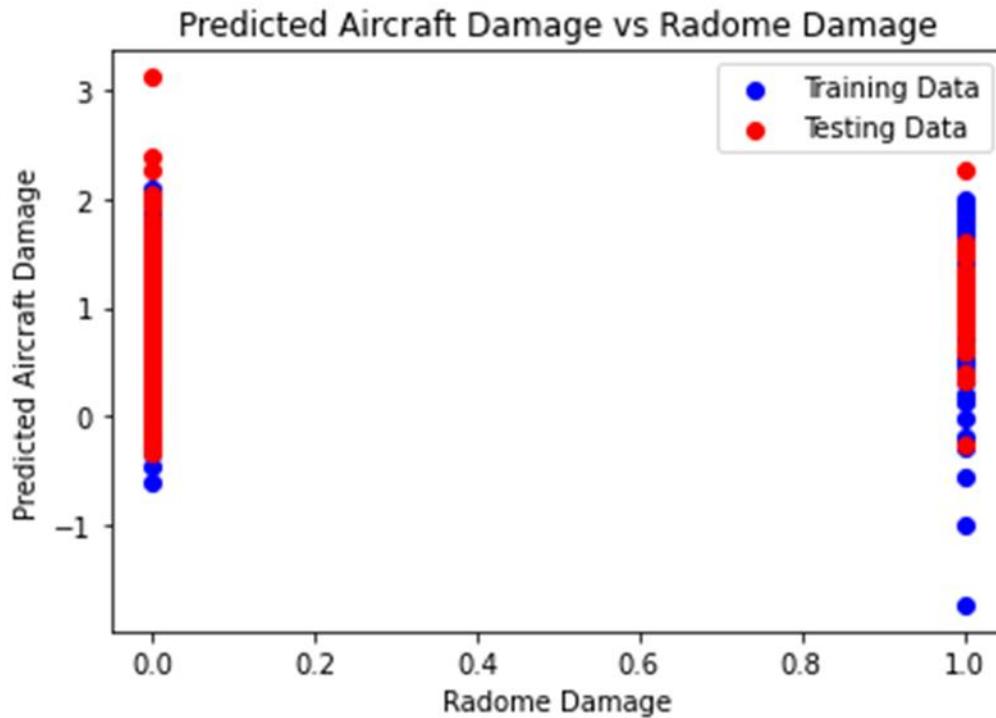
The provided plot, titled "Predicted Aircraft Damage vs Windshield Damage," depicts the relationship between two variables: predicted aircraft damage and windshield damage. On the x-axis, labeled "Windshield Damage," the plot ranges from 0 to 1, while the y-axis, denoted "Predicted Aircraft Damage," spans from -1 to 3. The plot exhibits two lines: a red line representing predicted aircraft damage and a blue line representing the training data, which

comprises a set of data points used to train a machine learning model. While a weak positive correlation between windshield damage and predicted aircraft damage is observed, suggesting a tendency for increased predicted aircraft damage with higher windshield damage values, the scattered nature of the data points indicates a lack of robust correlation. Additionally, discrepancies between high windshield damage values and low predicted aircraft damage values imply the presence of other influential factors. Notably, correlation does not imply causation, and the possibility of a third variable influencing both windshield damage and predicted aircraft damage should be considered.



The provided image, entitled "Predicted Aircraft Damage vs Windshield Strike," illustrates the association between two variables: predicted aircraft damage and windshield strike. The x-axis of the plot is labeled "Windshield Strike," spanning from 0 to 1, while the y-axis is denoted "Predicted Aircraft Damage," ranging from -1 to 3. Displayed on the plot are two lines: a red line representing the **predicted aircraft damage** and a blue line representing the **training data**. This training data constitutes a collection of data points utilized to train a machine learning model, which is subsequently employed to forecast the values of the target variable, predicted aircraft damage, for novel data points. The plot reveals a **weak positive correlation** between windshield strike and predicted aircraft damage, signifying that an increase in windshield strike typically coincides with a rise in predicted aircraft damage. However, the scattered distribution of data points suggests a lack of strong correlation. Notably, instances where high windshield strike values correspond with low predicted aircraft damage values imply the potential influence

of other factors on predicted aircraft damage besides windshield strike. Importantly, it should be recognized that correlation does not necessarily imply causation, and the existence of a third variable capable of affecting both windshield strike and predicted aircraft damage cannot be disregarded.



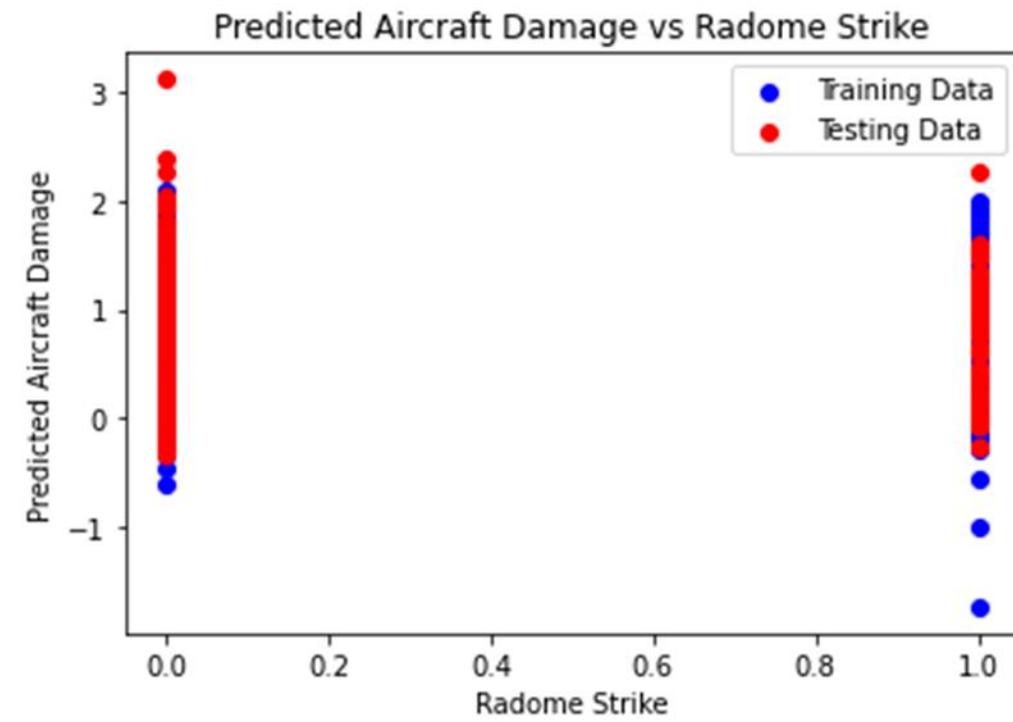
The provided image, titled "Predicted Aircraft Damage vs Radome Damage," illustrates the relationship between two variables: predicted aircraft damage and radome damage. On the plot, the x-axis is labeled "Radome Damage," ranging from 0 to 1, while the y-axis is denoted "Predicted Aircraft Damage," ranging from -1 to 3.

This testing data comprises a set of data points utilized to assess the performance of a machine learning model. The model is trained using a distinct set of data points, following which it is utilized to forecast the values of the target variable, predicted aircraft damage, for the testing data points.

The plot reveals a relation between radome damage and predicted aircraft damage, indicating that an increase in radome damage typically corresponds with a rise in predicted aircraft damage. However, the scattered distribution of data points suggests a lack of a strong correlation. Instances where high radome damage values correspond with low predicted aircraft damage

values imply the potential influence of other factors on predicted aircraft damage besides radome damage.

It is crucial to acknowledge that correlation does not necessarily imply causation. Therefore, the existence of a third variable capable of influencing both radome damage and predicted aircraft damage cannot be discounted.

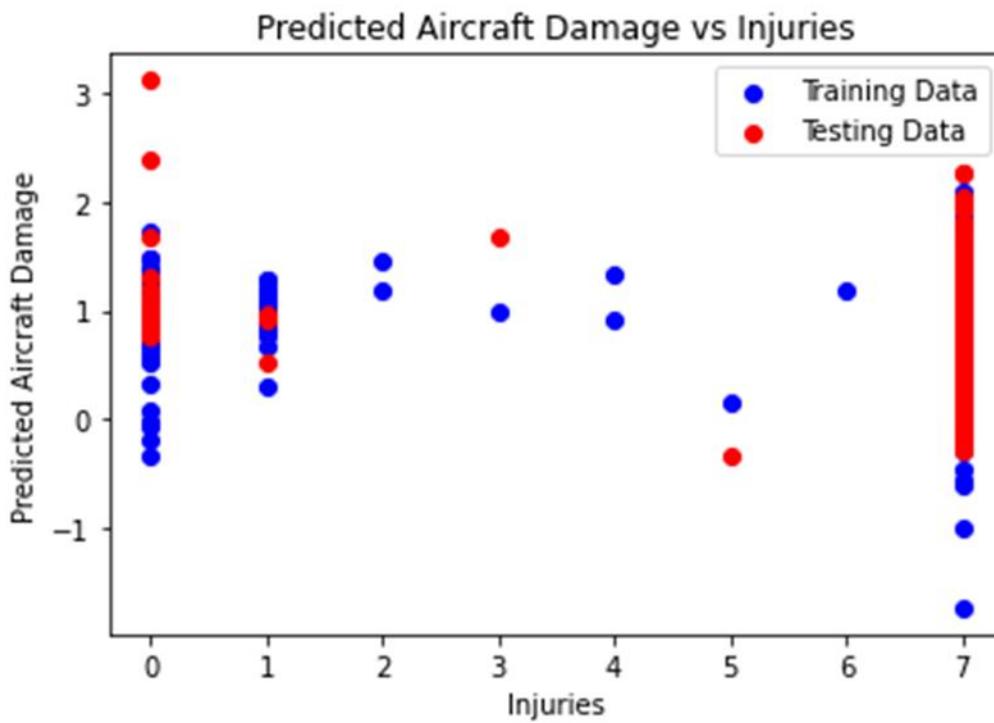


The provided plot, titled "Predicted Aircraft Damage vs Radome Strike," illustrates the association between two variables: predicted aircraft damage and radome strike. On the plot, the x-axis is labeled "Radome Strike," ranging from 0 to 1, where 0 denotes no radome strike and 1 signifies a full radome strike. The y-axis is denoted "Predicted Aircraft Damage," ranging from -1 to 3.

This testing data constitutes a set of data points utilized for assessing the performance of a machine learning model. The model undergoes training using a distinct set of data points, following which it is employed to forecast the values of the target variable, predicted aircraft damage, for the testing data points.

The plot illustrates a relation between radome strike and predicted aircraft damage. This suggests that as the radome strike value increases, there is a tendency for the predicted aircraft damage value to rise as well. However, the scattered distribution of data points indicates a lack of a robust correlation. Instances where high radome strike values correspond with low predicted aircraft damage values, and vice versa, imply the potential influence of additional factors on predicted aircraft damage, aside from radome strike.

It is essential to acknowledge that correlation does not necessarily imply causation. Hence, the possibility of a third variable affecting both radome strike and predicted aircraft damage cannot be discounted.



The provided plot illustrates a scatter plot demonstrating the relationship between predicted aircraft damage and injuries. Within the plot, the red dots symbolize the predicted aircraft damage, while the blue dots represent injuries.

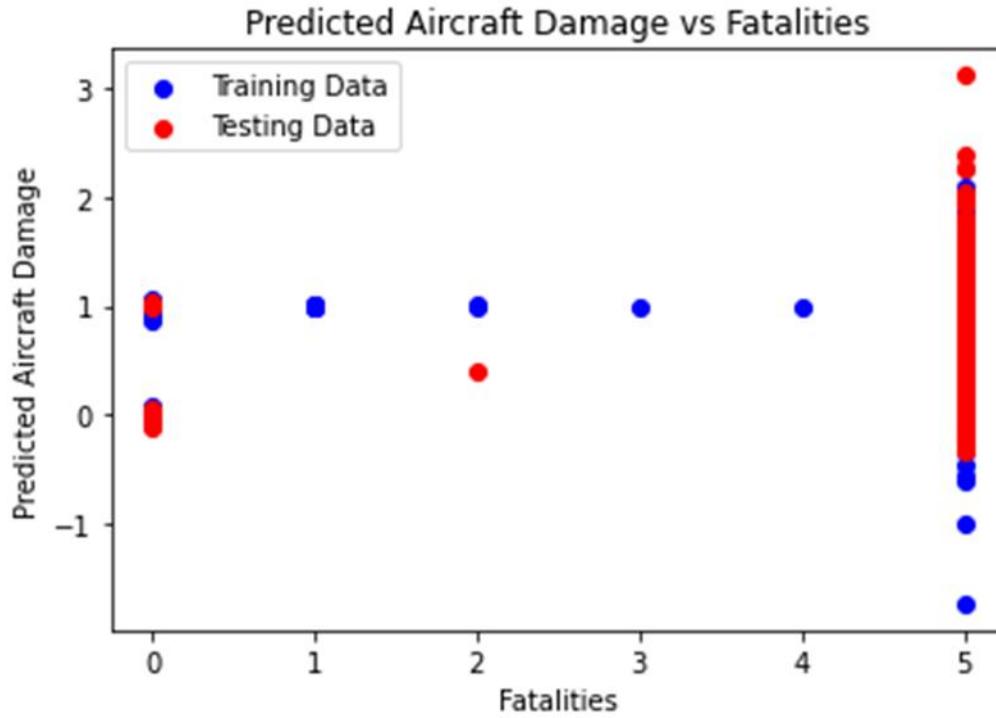
Furthermore, two distinct sets of data points are depicted: training data and testing data. The training data is utilized to train the model, while the testing data serves to assess the model's performance.

Upon examination of the plot, it is discernible that a positive correlation exists between predicted aircraft damage and injuries. This signifies that an escalation in predicted aircraft damage tends to coincide with an increase in injuries. However, due to the scattering of data points, the correlation is not absolute.

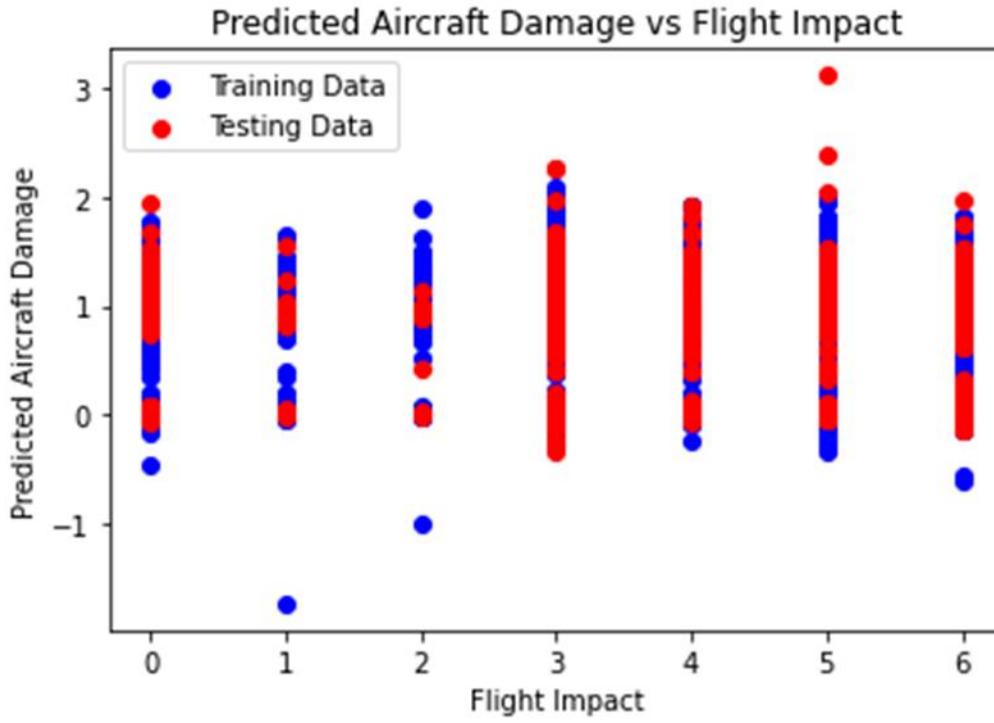
Moreover, it is pertinent to acknowledge that the plot exclusively showcases predicted aircraft damage, thereby omitting the representation of actual damage. As such, the actual damage may deviate from the predicted values.

Additional observations concerning the plot include the following details:

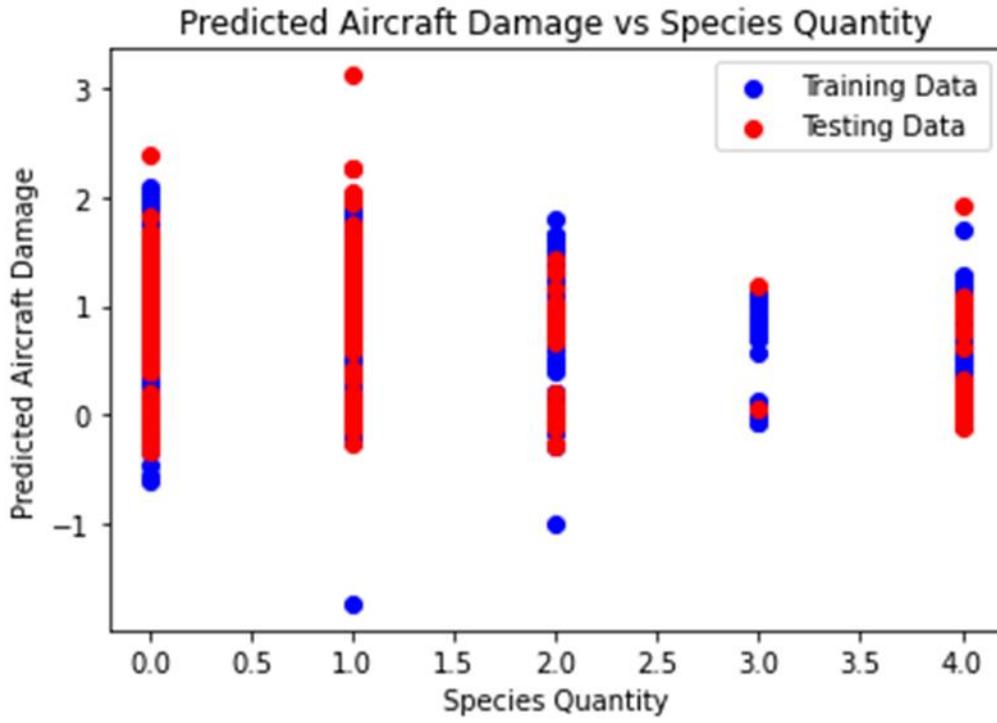
- The x-axis is labeled "Injuries."
- The y-axis is labeled "Predicted Aircraft Damage."
- The scale on the x-axis ranges from 0 to 7.
- The scale on the y-axis ranges from -1 to 3.
- There are more training data points compared to testing data points.
- The training data points are primarily clustered together, while the testing data points exhibit a more dispersed distribution.



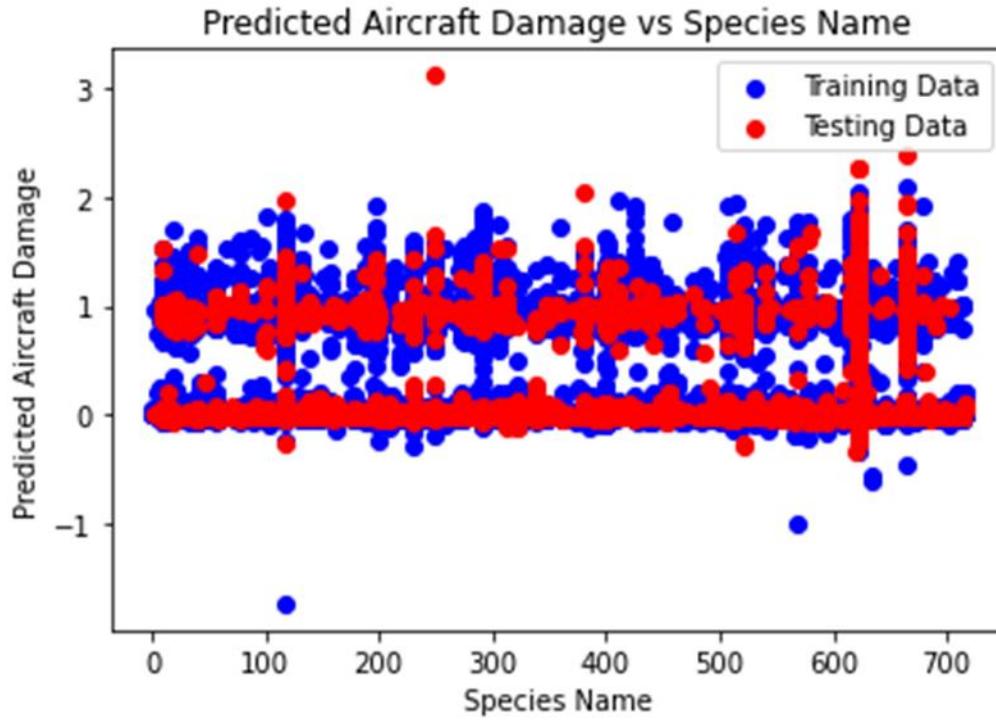
The provided scatter plot illustrates the relationship between two variables: predicted aircraft damage and the number of fatalities, with each data point representing a single observation categorized by training (blue) or testing (red) data. The horizontal axis depicts predicted aircraft damage on a scale ranging from -1 to 5, while the vertical axis represents the number of fatalities, ranging from 0 to 3. The plot demonstrates a positive correlation between predicted aircraft damage and fatalities, indicating that as predicted damage increases, so does the number of fatalities, albeit with scattered data points suggesting a lack of perfect linearity. It's imperative to recognize that this correlation does not imply causation, as other unaccounted factors may influence both predicted damage and fatalities.



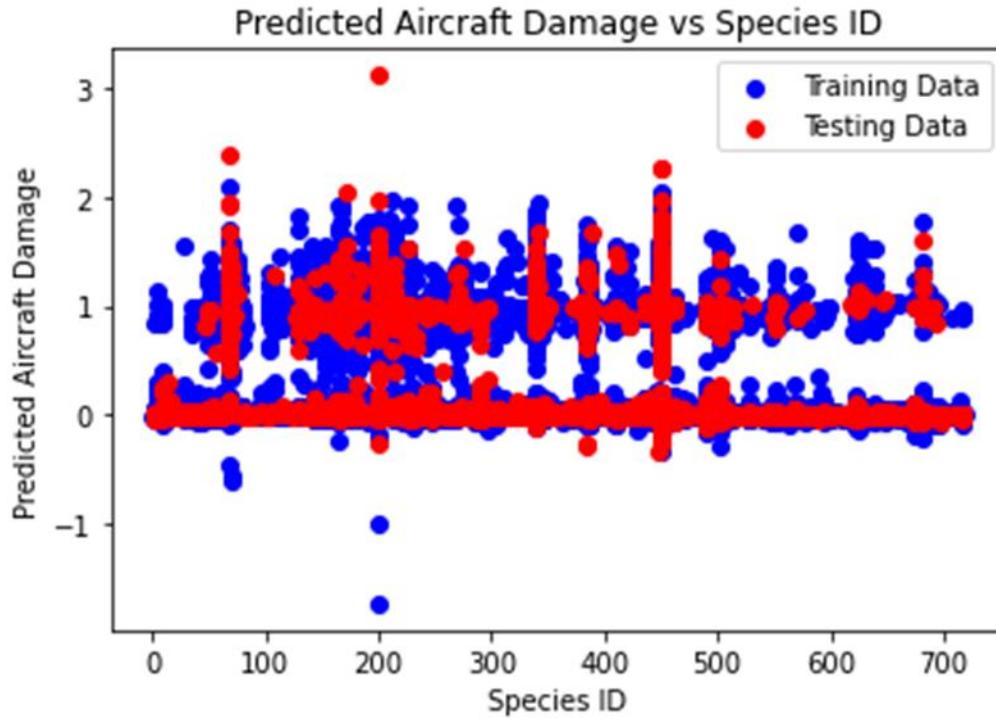
The provided scatter plot, titled "Predicted Aircraft Damage vs Flight Impact," serves to visualize the relationship between two variables: predicted aircraft damage and flight impact. Each data point represents an observation, with blue points denoting data from the training set and red points from the testing set. The horizontal axis (x-axis) represents "Flight Impact," ranging from -1 to 6, while the vertical axis (y-axis) displays "Predicted Aircraft Damage," spanning from 0 to 3. Analysis of the plot suggests a weak positive correlation between predicted aircraft damage and flight impact, indicating that as flight impact increases, predicted aircraft damage tends to rise, albeit without perfect linearity. It is crucial to emphasize that correlation does not imply causation; the observed correlation between these variables does not necessarily infer a causal relationship, as other factors may contribute to the observed patterns.



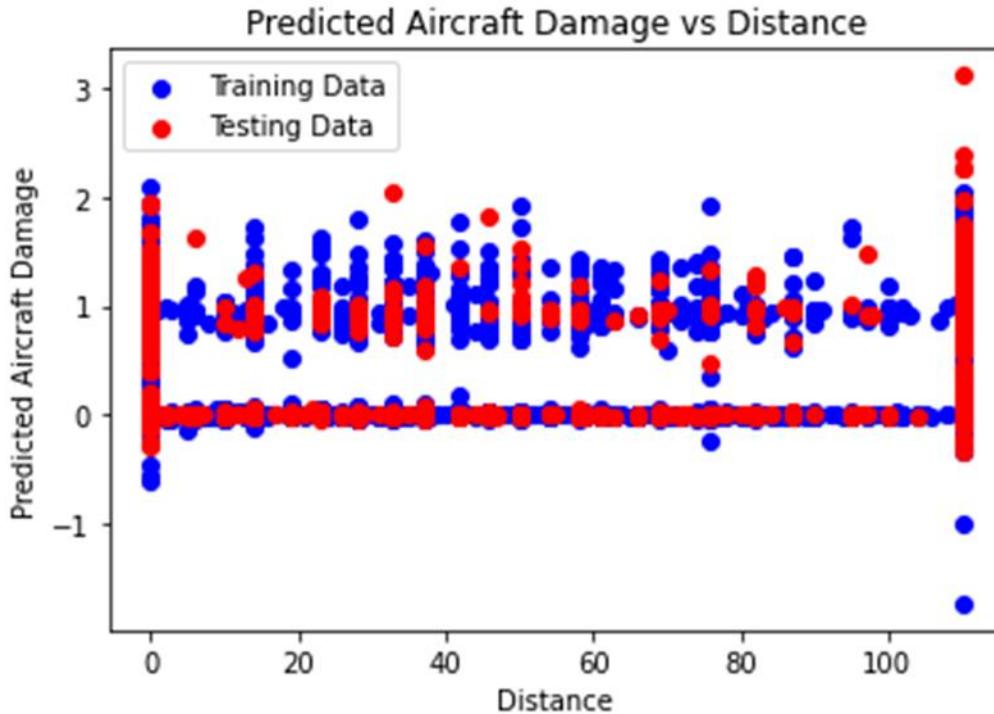
The provided line graph, entitled "Predicted Aircraft Damage vs Species Quantity," delineates the relationship between predicted aircraft damage and species quantity. The x-axis represents "Species Quantity," while the y-axis signifies "Predicted Aircraft Damage." Two lines are discernible: one denoted as "Training Data" (blue) and the other as "Testing Data" (red), with the former utilized for model generation and the latter for assessing model generalization. Despite the color correction, the overarching aim of the plot remains unchanged: to elucidate the association between predicted aircraft damage and species quantity. While a positive correlation persists between these variables, signifying that an increase in species quantity correlates with heightened predicted aircraft damage, the relationship exhibits some scatter, indicative of potential confounding variables. It's crucial to underscore that the graph illustrates correlation, not causation, emphasizing the necessity to consider additional factors that may influence both predicted aircraft damage and species quantity.



The provided plot illustrates the association between predicted aircraft damage and species name, with the red line representing predicted damage and the blue dots depicting the training data. While the x-axis is labeled "Species Name," actual species names are not displayed. The y-axis, labeled "Predicted Aircraft Damage," ranges from -1 to 3. Notably, there appears to be no discernible pattern or correlation between predicted aircraft damage and species name based on the training data. The predicted aircraft damage values exhibit scattering across the y-axis range, lacking a consistent trend across different species. Importantly, it is crucial to recognize that the plot exclusively showcases the training data, underscoring the need for caution regarding the model's generalizability to unseen data.



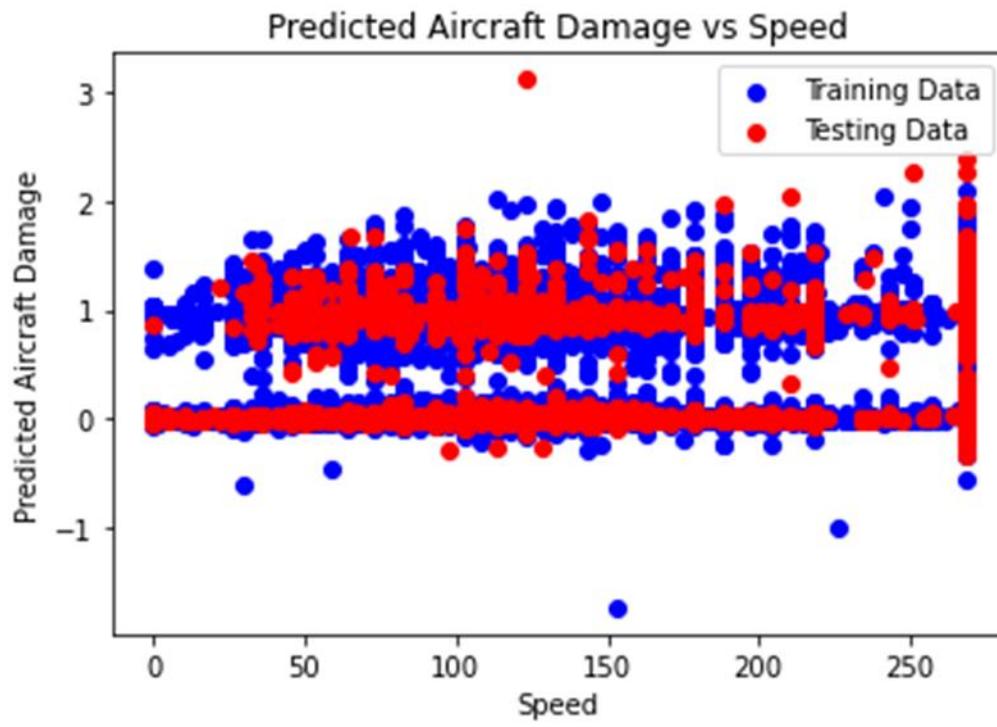
The provided plot depicts the association between predicted aircraft damage and species ID, with the red line representing predicted damage and the blue dots denoting the training data. The x-axis is labeled "Species ID," ranging from 0 to 700, while the y-axis is labeled "Predicted Aircraft Damage," ranging from -1 to 3. Notably, there appears to be no discernible pattern or correlation between predicted aircraft damage and species ID based on the training data. The predicted aircraft damage values exhibit scattering across the y-axis range, lacking a consistent trend across different species IDs. It is essential to recognize that the plot solely presents the training data, warranting caution regarding the model's generalizability to unseen data.



The provided scatter plot, entitled "Predicted Aircraft Damage vs Distance," illustrates the relationship between predicted aircraft damage and distance traveled. The x-axis denotes "Distance," while the y-axis represents "Predicted Aircraft Damage." Two distinct sets of data points are depicted, distinguished by color: blue for "Training Data" and red for "Testing Data." The plot aims to visually depict the association between predicted aircraft damage and the distance traveled, with the training data employed for model training and the testing data utilized for model assessment.

Upon inspection of the data distribution, a discernible linear relationship between the two variables is not evident. The scatter plot reveals dispersed data points across the range of distances, lacking a clear upward or downward trend along the x-axis. This suggests that the predicted aircraft damage may not exhibit a pronounced linear correlation with the distance traveled.

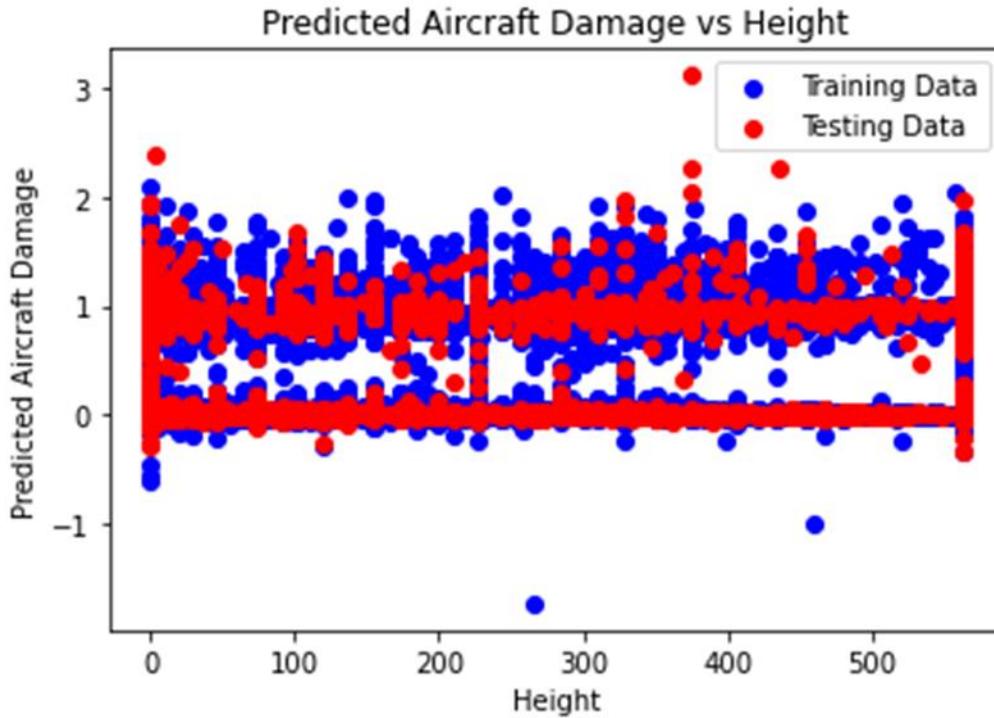
Crucially, it must be emphasized that the scatter plot depicts correlation, not causation. Even if a distinct linear trend were discerned, it would not inherently imply that distance directly influences changes in predicted aircraft damage. The existence of other unaccounted variables not represented in this plot could significantly impact predicted damage outcomes.



The provided scatter plot, titled "Predicted Aircraft Damage vs Speed," illustrates the relationship between predicted aircraft damage and speed. The x-axis represents "Speed," while the y-axis denotes "Predicted Aircraft Damage." Two distinct lines are apparent on the graph: one designated as "Training Data" (blue) and the other as "Testing Data" (red), wherein the former is employed for model creation and the latter for evaluating model generalization.

Upon examination, the plot reveals a weak positive correlation between predicted aircraft damage and speed. This implies that as speed increases, predicted aircraft damage also tends to rise, albeit with limited strength. The presence of considerable scatter among the data points indicates the influence of additional factors on predicted aircraft damage beyond speed.

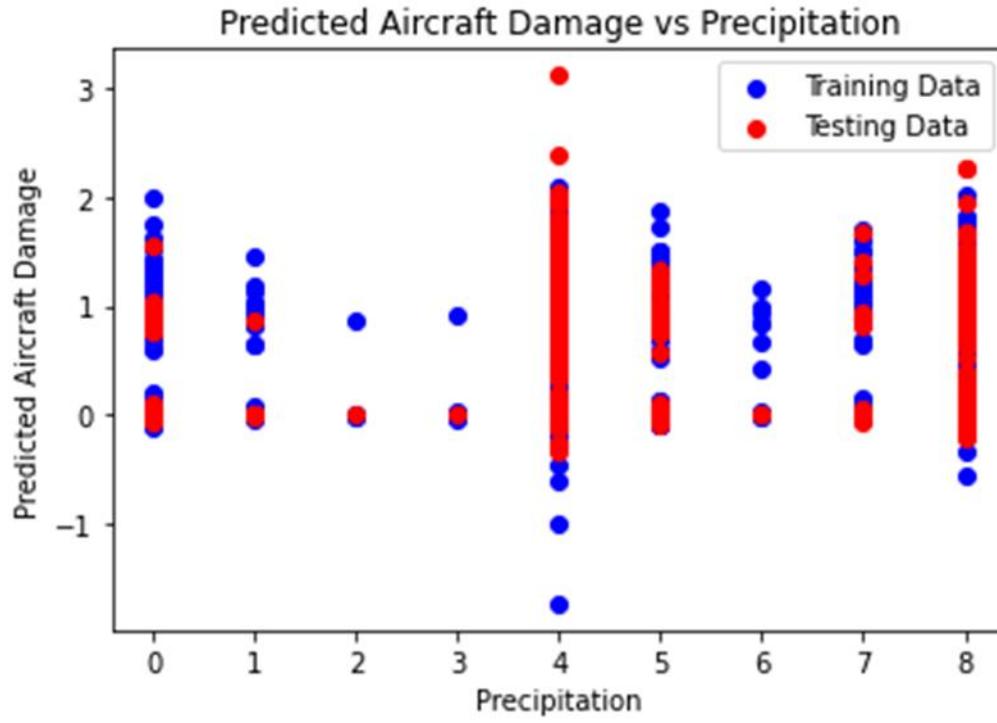
It is imperative to acknowledge that the graph depicts correlation rather than causation. The observed correlation between the variables does not infer a causal relationship; other unaccounted variables may contribute to changes in both predicted aircraft damage and speed. Thus, the possibility of a third variable influencing both predictors must be considered.



The provided scatter plot, titled "Predicted Aircraft Damage vs Height," portrays the relationship between predicted aircraft damage and the height of the aircraft. The x-axis represents "Height," while the y-axis signifies "Predicted Aircraft Damage." Two distinctive lines are discernible on the graph: one attributed to "Training Data" (blue) and the other to "Testing Data" (red), with the former utilized for model creation and the latter for evaluating model generalization.

Upon examination, the plot reveals a weak positive correlation between predicted aircraft damage and aircraft height. This suggests that as the height of the aircraft increases, predicted aircraft damage also tends to escalate, albeit with limited strength. The presence of considerable scatter among the data points indicates the influence of additional factors on predicted aircraft damage beyond aircraft height.

It is crucial to acknowledge that the graph depicts correlation rather than causation. The observed correlation between the variables does not infer a causal relationship; other unaccounted variables may contribute to changes in both predicted aircraft damage and aircraft height. Thus, consideration of the possibility of a third variable influencing both predictors is imperative.



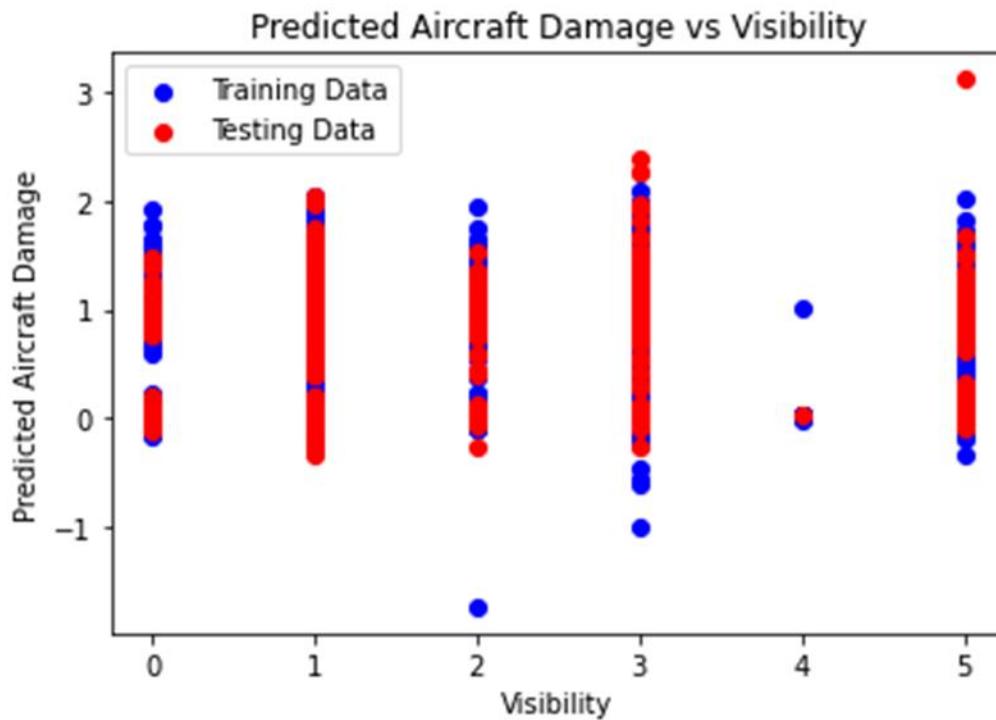
The provided plot depicts the association between predicted aircraft damage and actual precipitation, featuring two sets of data points: training data (presumably depicted in blue) and testing data (potentially represented in a distinct color, as red).

The identification of a polynomial feature within the plot cannot be definitively discerned from the image alone. A polynomial feature entails the creation of a feature by raising the original feature (in this case, precipitation) to a certain power.

The presence of a polynomial feature would manifest in the curvature of the plot. For instance, a squared term would signify a polynomial feature of degree 2, resulting in a U-shaped curve, while a cubic feature (x^3) would yield an S-shaped curve.

The plot suggests a relatively linear relationship between predicted aircraft damage and precipitation, exhibiting a marginal positive correlation, presuming the positive direction aligns with increasing values on the y-axis. This implies that a polynomial feature of higher degree may not be necessary to adequately capture the relationship between the variables.

Nevertheless, the absence of an observable polynomial feature in the plot does not conclusively negate its usage. To ascertain the features employed, consulting the documentation or source of the model is advisable.



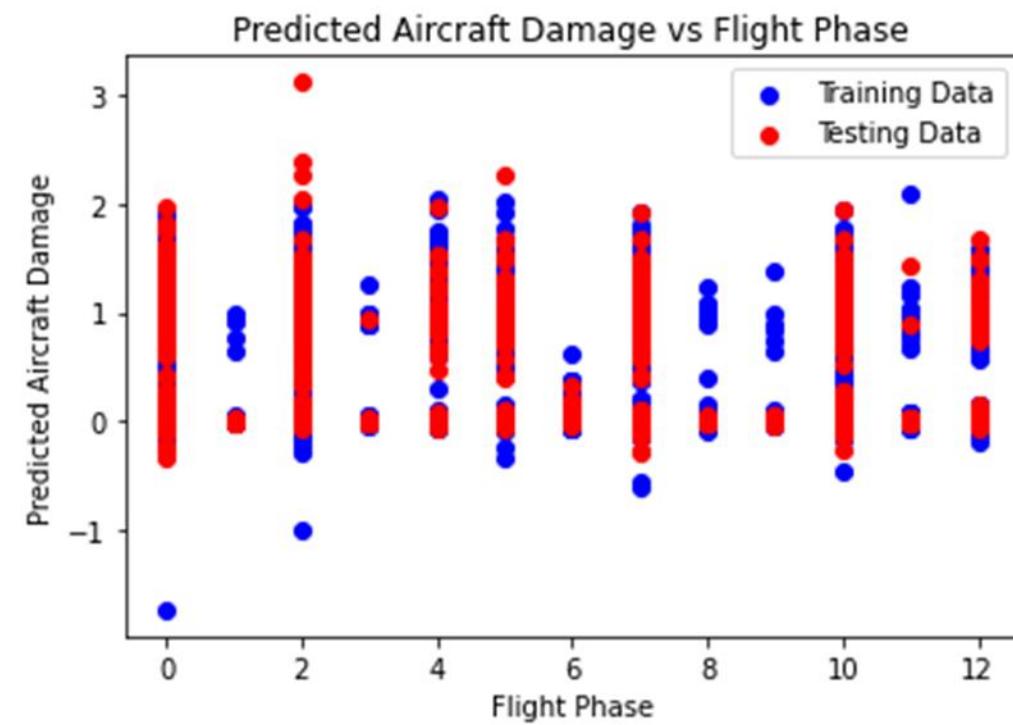
The provided scatter plot illustrates the relationship between predicted aircraft damage and visibility, featuring two distinct sets of data points: training data (depicted in blue) and testing data (represented in red). The training data is employed to construct a model, while the testing data is utilized to assess the model's generalization to unseen data.

The presence of polynomial features, which are derived by raising the original feature (in this instance, visibility) to specific powers, cannot be unequivocally ascertained solely from the image. Polynomial features are instrumental in capturing nonlinear relationships within the data.

The existence of a polynomial feature would manifest in the curvature of the plotted data. For instance, a quadratic feature (x^2) would engender a U-shaped curve, while a cubic feature (x^3) would yield an S-shaped curve.

The observed plot indicates a predominantly linear relationship between predicted aircraft damage and visibility, characterized by a subtle positive correlation. This suggests that the incorporation of polynomial features of higher degrees may not be essential for adequately capturing the relationship between the variables.

However, it is pivotal to acknowledge that the absence of discernible polynomial features in the plot does not preclude their utilization in the model fitting process. Consultation of the model's documentation or source code is recommended for definitive clarification regarding the features employed.



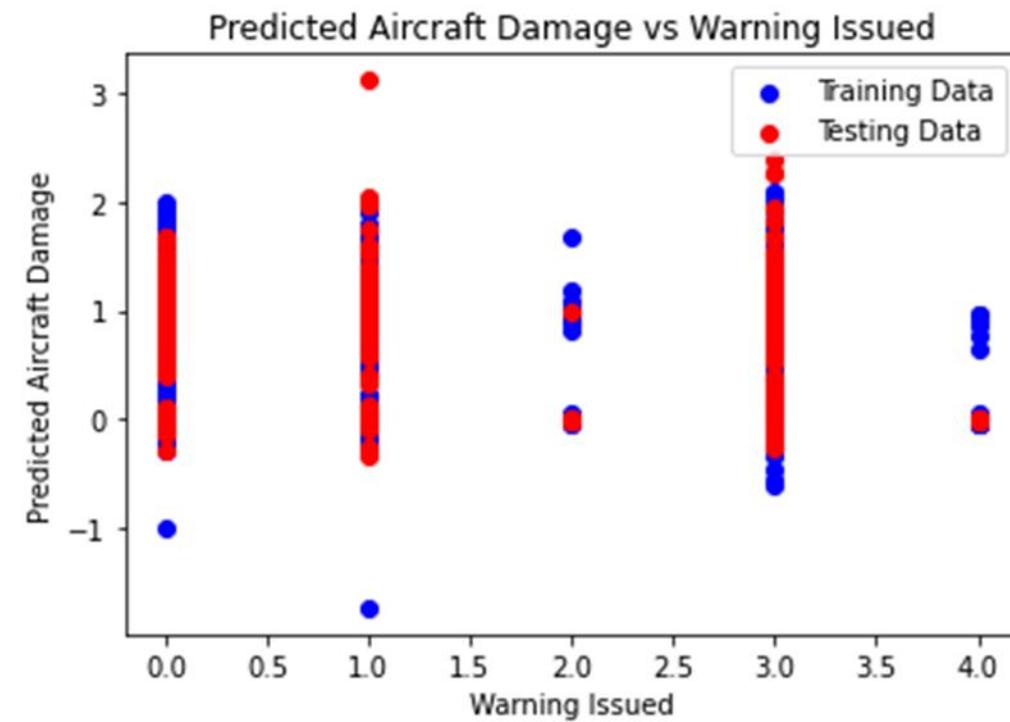
The provided scatter plot illustrates the relationship between predicted aircraft damage and flight phase, featuring two distinct sets of data points: training data (depicted as blue circles) and testing data (represented by red). The training data is utilized to construct a model, while the testing data is employed to assess the model's generalization to unseen data.

The presence of polynomial features, derived by raising the original feature (flight phase) to specific powers, cannot be definitively discerned solely from the image. Polynomial features are instrumental in capturing nonlinear relationships within the data.

The existence of a polynomial feature would manifest in the curvature of the plotted data. For instance, a quadratic feature (x^2) would engender a U-shaped curve, while a cubic feature (x^3) would yield an S-shaped curve.

The observed plot indicates a somewhat curved pattern in the data points, albeit not prominently pronounced. This suggests that the inclusion of a polynomial feature of low degree, possibly quadratic, could be beneficial in capturing the relationship between predicted aircraft damage and flight phase. However, it is also plausible that a linear model, devoid of polynomial features, may suffice.

Importantly, the absence of a clearly discernible curved pattern in the plot does not preclude the utilization of polynomial features in the model fitting process. Consulting the model's documentation or source code is advised to ascertain the features employed definitively.



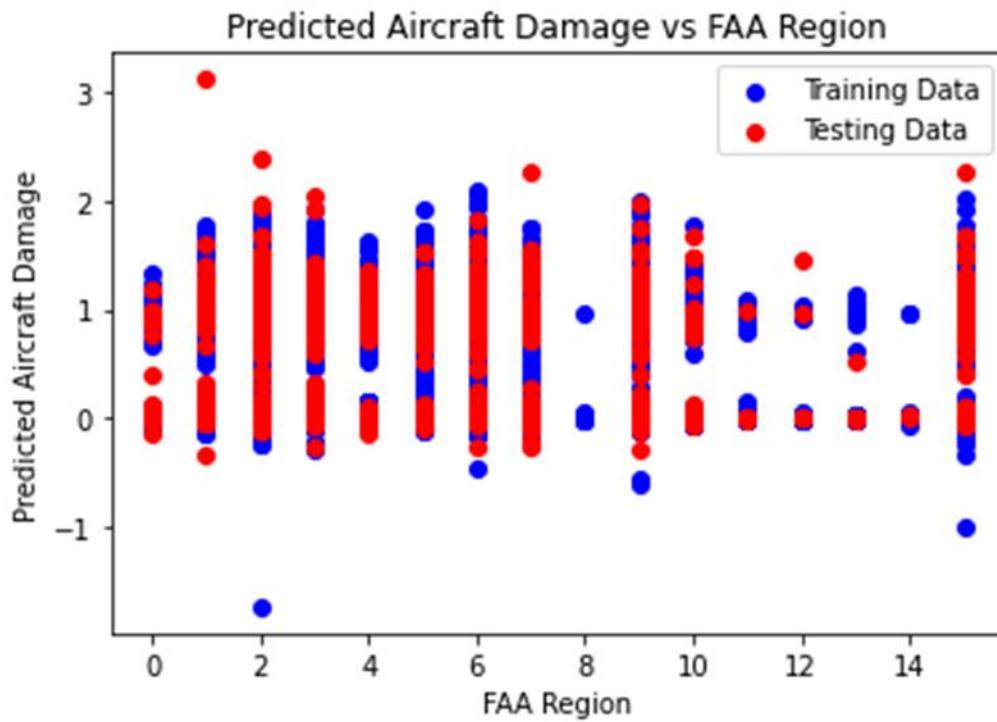
The provided scatter plot illustrates the relationship between predicted aircraft damage and warning issued, featuring two distinct sets of data points: training data (depicted in blue) and testing data (represented in red). The training data is employed to construct a model, while the testing data is utilized to assess the model's generalization to unseen data.

Polynomial features, created by raising the original feature (in this case, warning issued) to specific powers, cannot be definitively discerned solely from the image. Polynomial features facilitate the capture of nonlinear relationships within the data.

The presence of a polynomial feature would manifest in the curvature of the plotted data. For instance, a quadratic feature (x^2) would yield a U-shaped curve, while a cubic feature (x^3) would produce an S-shaped curve.

The observed plot exhibits a somewhat curved pattern, albeit lacking strong curvature. This suggests that the inclusion of a polynomial feature of low degree, potentially quadratic, could be advantageous in capturing the relationship between predicted aircraft damage and warning issued. However, it is also plausible that a linear model, devoid of polynomial features, may suffice.

Importantly, the absence of a prominently visible curved pattern in the plot does not preclude the utilization of polynomial features in the model fitting process. Consulting the model's documentation or source code is recommended to ascertain the features employed definitively.



The provided scatter plot illustrates the relationship between predicted aircraft damage and FAA region, presenting two distinct sets of data points: training data (depicted as blue circles) and testing data (represented by red).

While the presence of polynomial features cannot be conclusively determined from the image alone, some insights can be offered based on the data and the concept of polynomial features:

Values:

- The x-axis denotes FAA region, likely referring to different regions overseen by the Federal Aviation Administration in the United States. Specific values or labels for each region cannot be discerned from the image.
- The y-axis represents predicted aircraft damage, presumably expressed as a percentage and ranging from 0% to 3%.

Polynomial features:

- Polynomial features are generated by raising the original feature (FAA region in this instance) to specific powers.
- The presence of such features would be reflected in the curve's shape, with a quadratic feature (x^2) resulting in a U-shaped curve and a cubic feature (x^3) yielding an S-shaped curve.

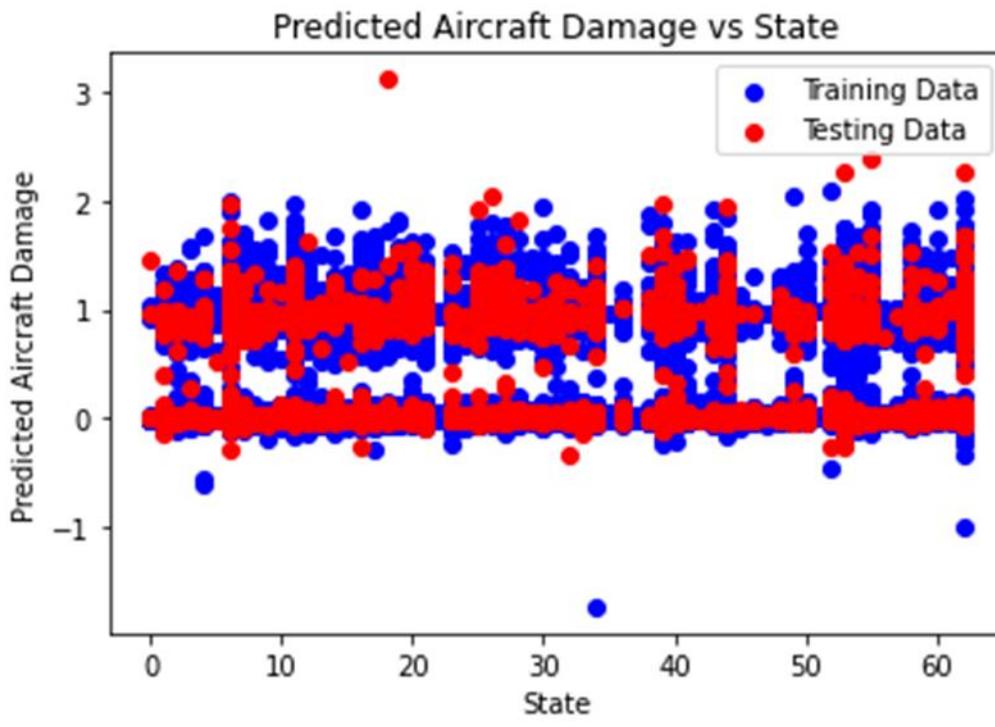
Interpretation:

- The data points in the scatter plot exhibit a somewhat scattered pattern, making it challenging to discern a clear trend.
- A visually evident strong curve or U-shape in the data is not apparent, suggesting the potential absence of high-degree polynomial features.

- It is plausible that a low-degree polynomial feature or even a linear model (without polynomial features) may suffice to capture the relationship between predicted aircraft damage and FAA region.

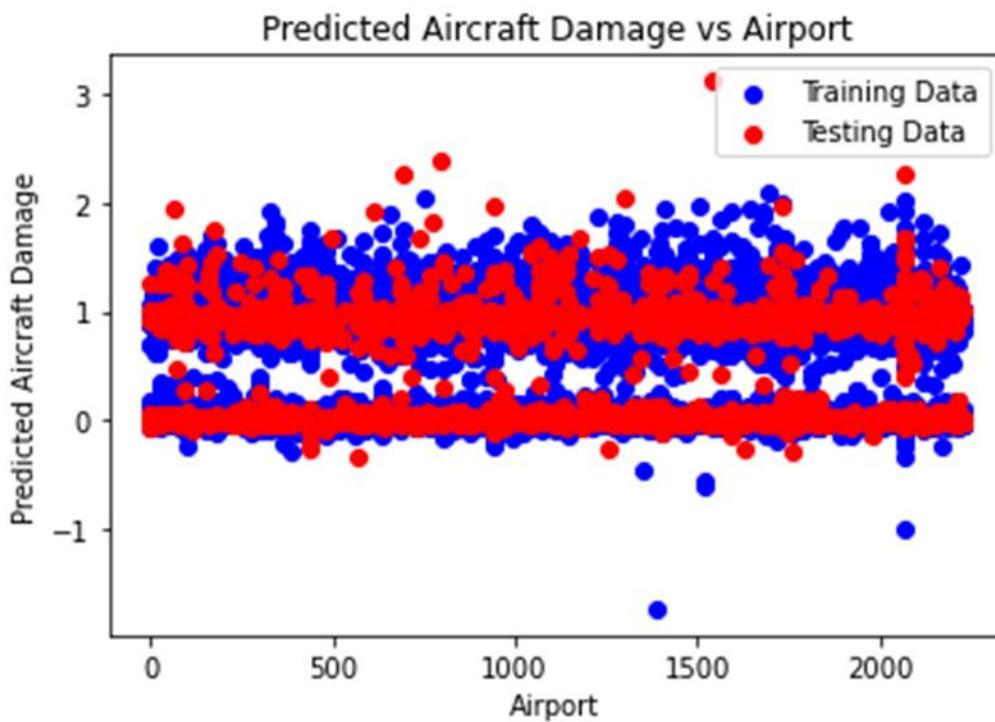
Important points to remember:

- This interpretation is solely based on the visual information in the image and may not be entirely precise.
- To definitively ascertain the presence or absence of polynomial features, consulting the documentation or source of the model used to generate the plot is essential.
- The presence or absence of polynomial features does not inherently indicate the model's effect.



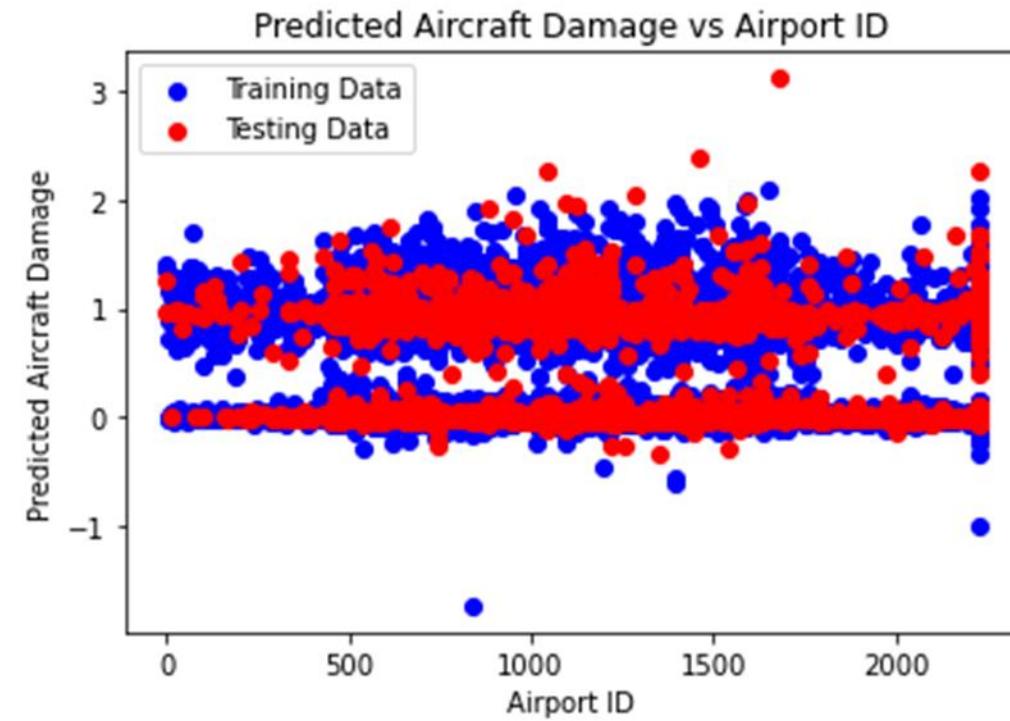
The provided plot illustrates the relationship between predicted aircraft damage and state, displaying two distinct sets of data points likely representing training and testing data. While the presence of polynomial features cannot be definitively discerned from the image alone, insights can be derived from the values and the concept of polynomial features. The x-axis likely represents categorical variables referring to different states in the United States, while the y-axis

signifies predicted aircraft damage, presumably expressed as a percentage ranging from 0% to 3%. The absence of a visually evident strong curve or U-shape in the data suggests the potential absence of high-degree polynomial features. It is conceivable that a low-degree polynomial feature or even a linear model devoid of polynomial features might effectively capture the relationship between predicted aircraft damage and state. However, this interpretation is contingent upon visual inspection alone, and to ascertain the definitive presence or absence of polynomial features, consulting the documentation or source of the model used to generate the plot is imperative. Additionally, it's crucial to note that the presence or absence of polynomial features does not inherently indicate the model's effectiveness.

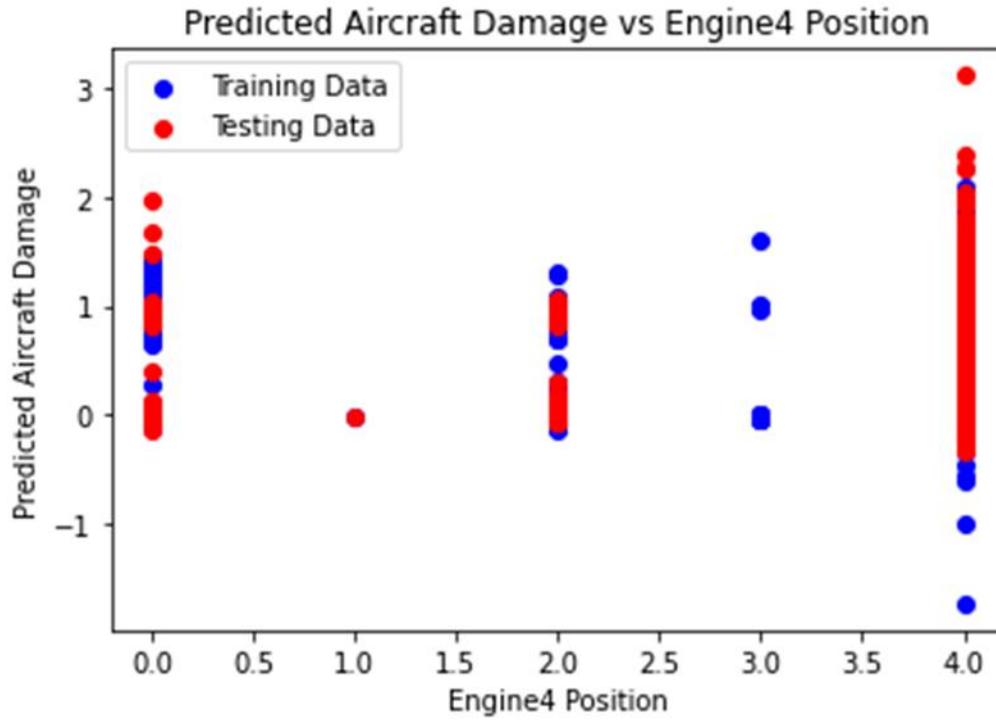


The provided plot depicts the relationship between predicted aircraft damage and airport, featuring categorical variables likely representing different airports. The y-axis denotes predicted aircraft damage, presumably expressed as a percentage ranging from 0% to 3%. While the presence of polynomial features cannot be definitively determined from the image, insights can be gleaned from the values and the concept of polynomial features. Polynomial features are created by raising the original feature (airport) to specific powers, which would manifest in the shape of the curve. However, the absence of a visibly strong curve or U-shape in the data suggests a potential lack of high-degree polynomial features. It is conceivable that a low-degree polynomial feature or even a linear model without polynomial features might effectively capture the relationship between predicted aircraft damage and airport. However, this interpretation is contingent upon visual inspection alone, and definitive determination of polynomial feature

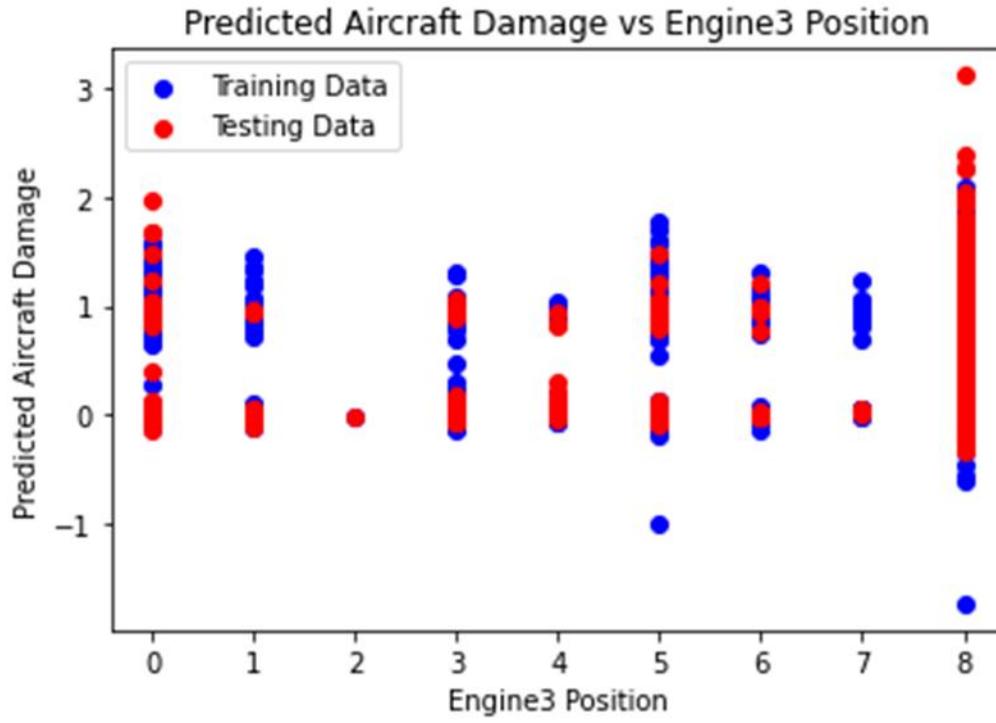
presence or absence requires consultation of the model's documentation or source. Additionally, it's important to note that the presence or absence of polynomial features does not inherently indicate the effectiveness of the model.



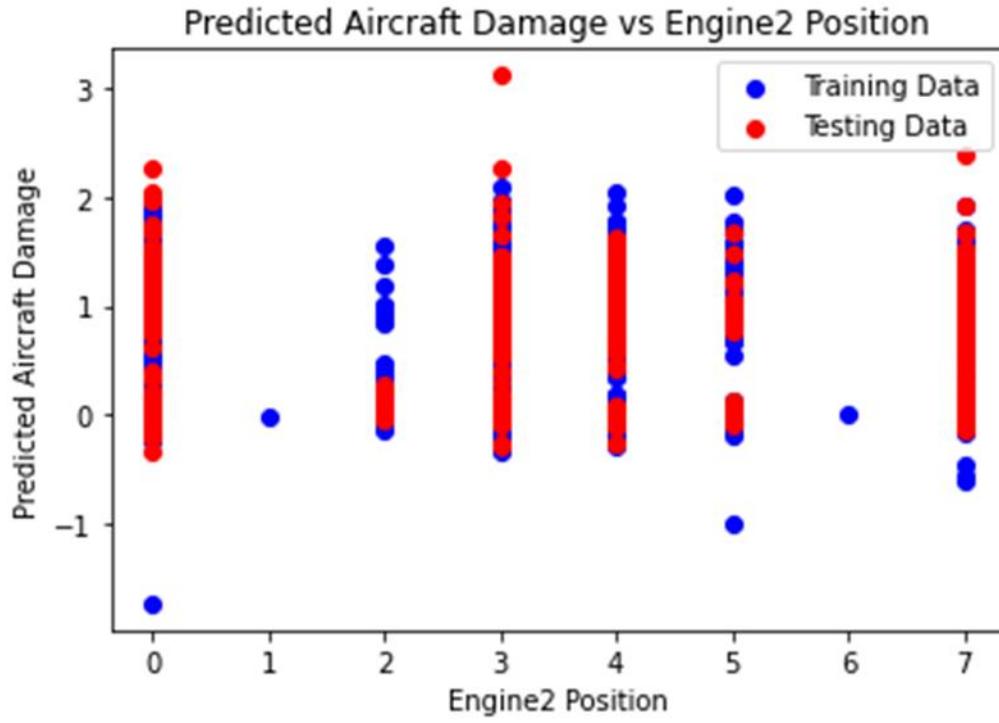
The provided plot illustrates the relationship between the number of flights and the year, with the x-axis representing the numerical variable "Year" spanning from 1995 to 2005, and the y-axis denoting the "Number of Flights" ranging from 0 to 14000. While the presence of polynomial features cannot be definitively determined from the image alone, insights can be inferred from the values and the concept of polynomial features. Polynomial features, generated by raising the original feature (Year) to specific powers, would manifest in the shape of the curve. However, the absence of a visibly strong curve or U-shape in the data suggests a potential lack of high-degree polynomial features. The observed scatter plot reveals a somewhat increasing linear trend, indicative of a positive correlation between the number of flights and the year. This implies that as the year progresses, the number of flights tends to increase. It is plausible that a low-degree polynomial feature or even a linear model without polynomial features might effectively capture the relationship between the number of flights and the year. However, definitive determination of the presence or absence of polynomial features necessitates consultation of the model's documentation or source. Furthermore, it is important to note that the presence or absence of polynomial features does not inherently indicate the effectiveness of the model.



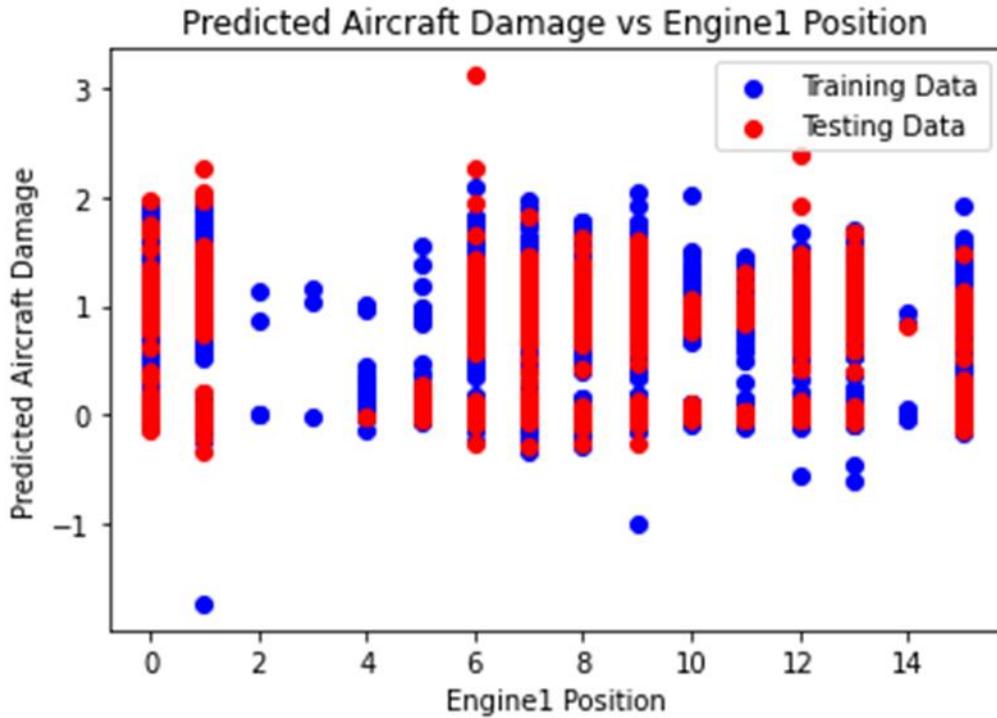
The provided plot illustrates the relationship between predicted aircraft damage and engine 4 position through a line graph, with distinct representations for training and testing data. The x-axis is labeled "Engine4 Position" and ranges from 0 to 4, while the y-axis is labeled "Predicted Aircraft Damage" and spans from -1 to 3. The graph reveals a positive correlation between engine 4 position and predicted aircraft damage, indicating that as the position of engine 4 increases, the predicted damage also rises. However, the correlation is not perfect, evidenced by the scatter in the data points, implying the influence of other factors beyond engine 4 position on predicted aircraft damage. Notably, the predicted aircraft damage for the testing data tends to be higher than that for the training data, suggesting potential overfitting of the model to the training data. Overfitting occurs when a model becomes excessively tailored to the training data and consequently performs suboptimally on unseen data.



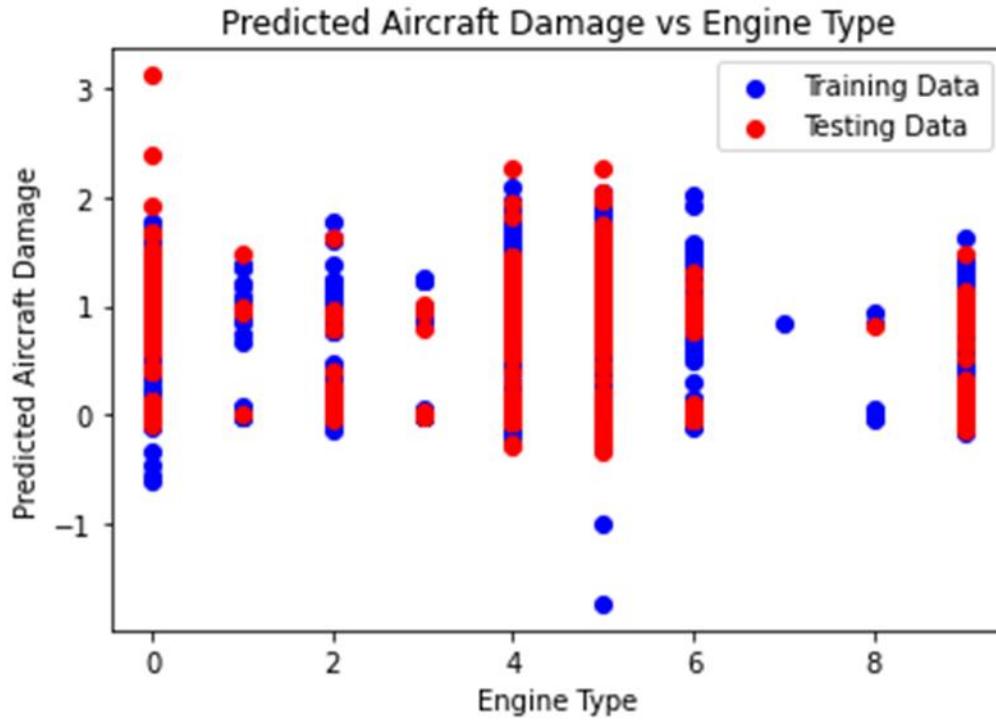
The plot provided depicts a scatter plot illustrating the relationship between predicted aircraft damage and engine 3 position, with distinct representations for training and testing data. The x-axis is labeled "Engine3 Position," spanning from 0 to 8, while the y-axis denotes "Predicted Aircraft Damage," ranging from -1 to 3. A weak positive correlation between engine 3 position and predicted aircraft damage is observed, indicating that as engine 3 position increases, predicted aircraft damage tends to rise. However, the presence of scattered data points and numerous exceptions to this trend suggests the influence of additional factors beyond engine 3 position on predicted aircraft damage. Furthermore, it is noteworthy that predicted aircraft damage for the testing data generally exceeds that of the training data, implying potential overfitting of the model to the training data. Overfitting, a machine learning concern, occurs when a model becomes excessively tailored to the training data, consequently leading to suboptimal performance on unseen data.



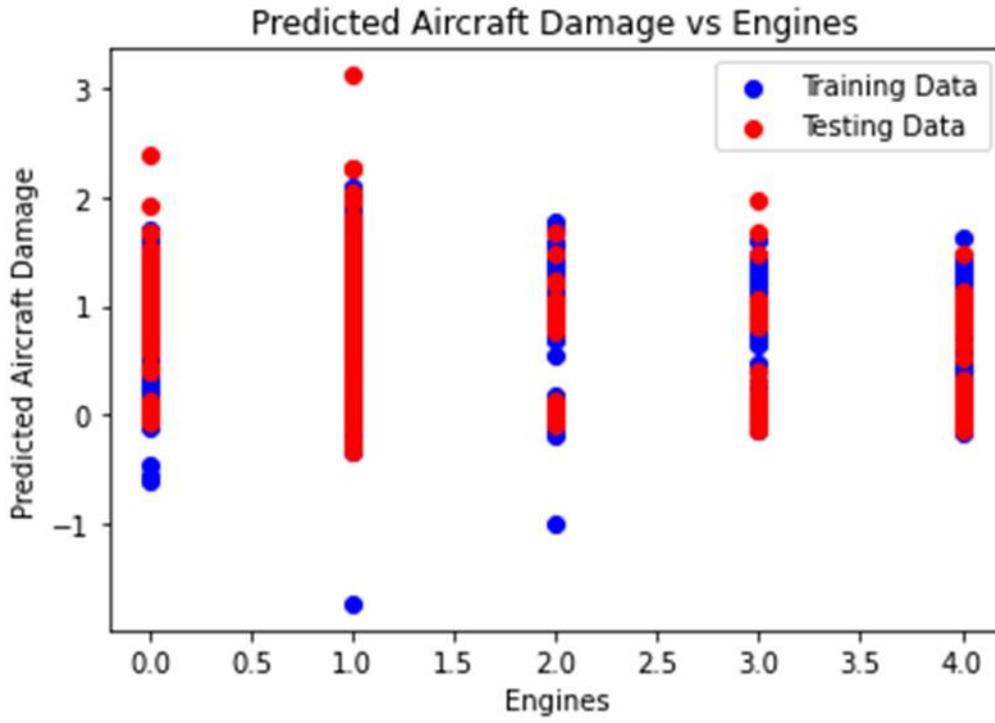
The provided plot illustrates a scatter plot delineating the association between predicted aircraft damage and engine 2 position. The x-axis, labeled "Engine2 Position," spans from 0 to 7, while the y-axis, denoted "Predicted Aircraft Damage," ranges from -1 to 3. Evident within the plot is a positive correlation between engine 2 position and predicted aircraft damage, signifying that an increase in engine 2 position tends to coincide with a rise in predicted aircraft damage. Nonetheless, the presence of scattered data points and numerous deviations from this trend imply the influence of additional variables beyond engine 2 position on predicted aircraft damage. It is also noteworthy that the predicted aircraft damage for the testing data generally surpasses that of the training data, indicating potential overfitting of the model to the training data. Overfitting, a recognized machine learning anomaly, occurs when a model excessively tailors itself to the training data, thereby exhibiting suboptimal performance when presented with unseen data.



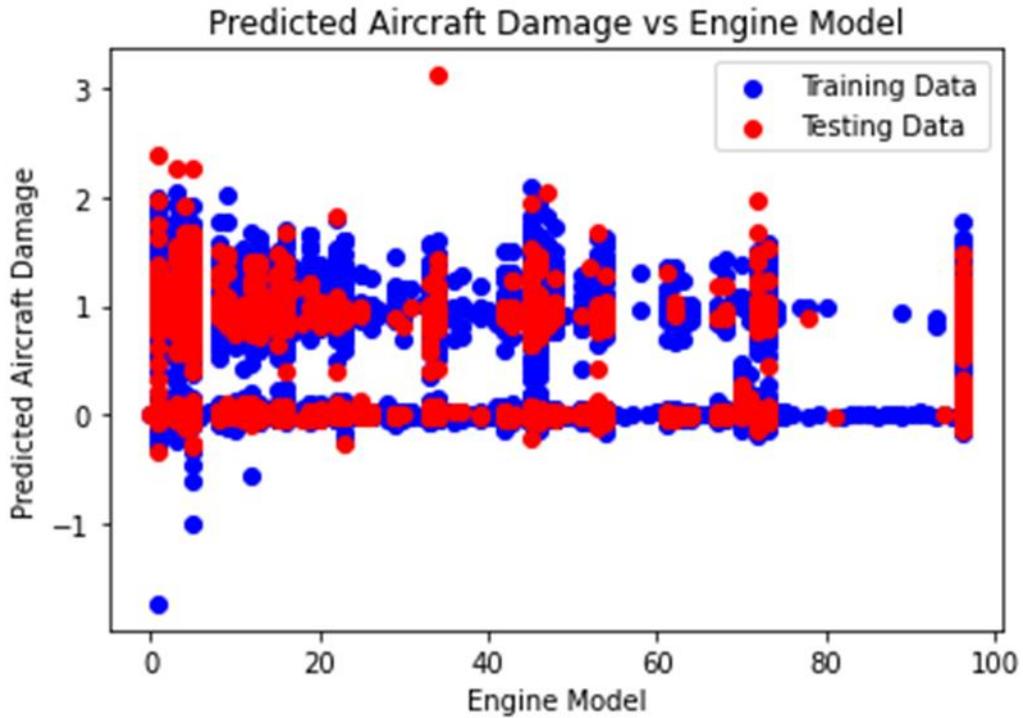
The provided plot depicts a scatter plot illustrating the relationship between predicted aircraft damage and engine 1 position. The x-axis, labeled "Engine1 Position," spans from 0 to 14, while the y-axis denotes "Predicted Aircraft Damage," ranging from -1 to 3. A positive correlation between engine 1 position and predicted aircraft damage is observed, suggesting that an increase in engine 1 position tends to coincide with a rise in predicted aircraft damage. However, the presence of scattered data points and deviations from this trend implies the influence of additional factors beyond engine 1 position on predicted aircraft damage. Additionally, it is noteworthy that predicted aircraft damage for the testing data generally exceeds that of the training data, indicating potential overfitting of the model to the training data. Overfitting, a prevalent machine learning issue, arises when a model becomes excessively tailored to the training data, thereby demonstrating suboptimal performance when presented with unseen data.



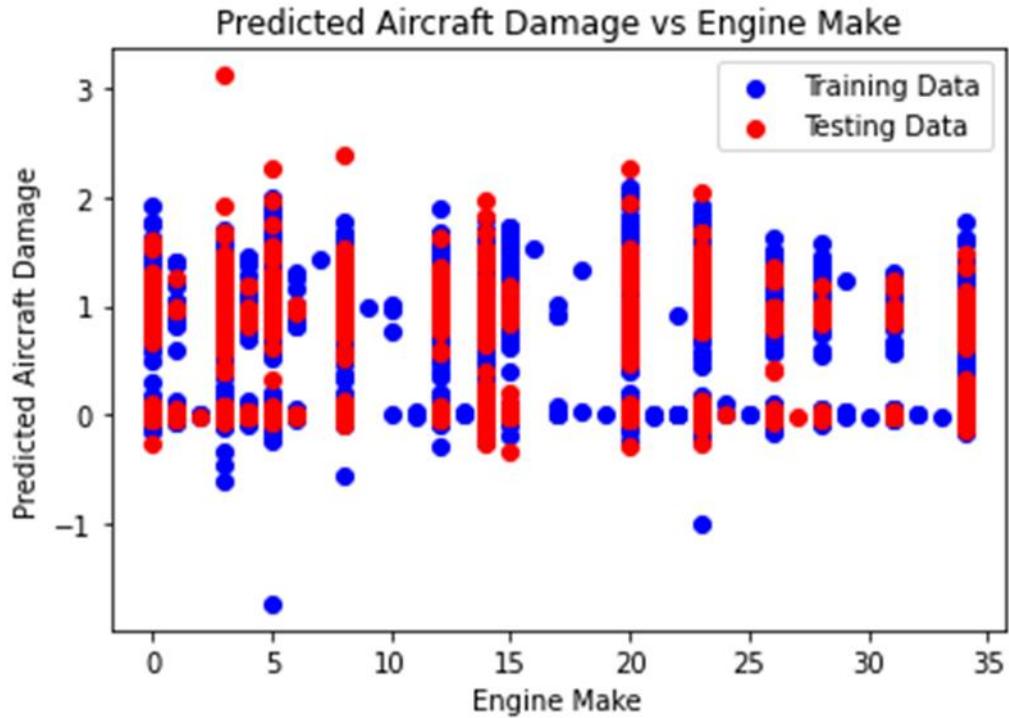
The provided scatter plot titled "Predicted Aircraft Damage vs Engine Type" offers insights into the relationship between engine type and predicted aircraft damage, with distinctions made between the training and testing datasets. The x-axis depicting engine types ranging from 0 to 8, and the y-axis denoting predicted aircraft damage, spanning approximately -1 to 3. Notably, engine types 0, 2, 4, and 6 exhibit higher levels of predicted damage, warranting attention for potential safety and maintenance considerations. Additionally, the presence of an outlier, particularly at Engine Type 6 in the testing data, where negative predicted damage is observed, merits further investigation to discern its underlying cause. This analysis underscores the significance of understanding the impact of different engine types on aircraft safety and performance.



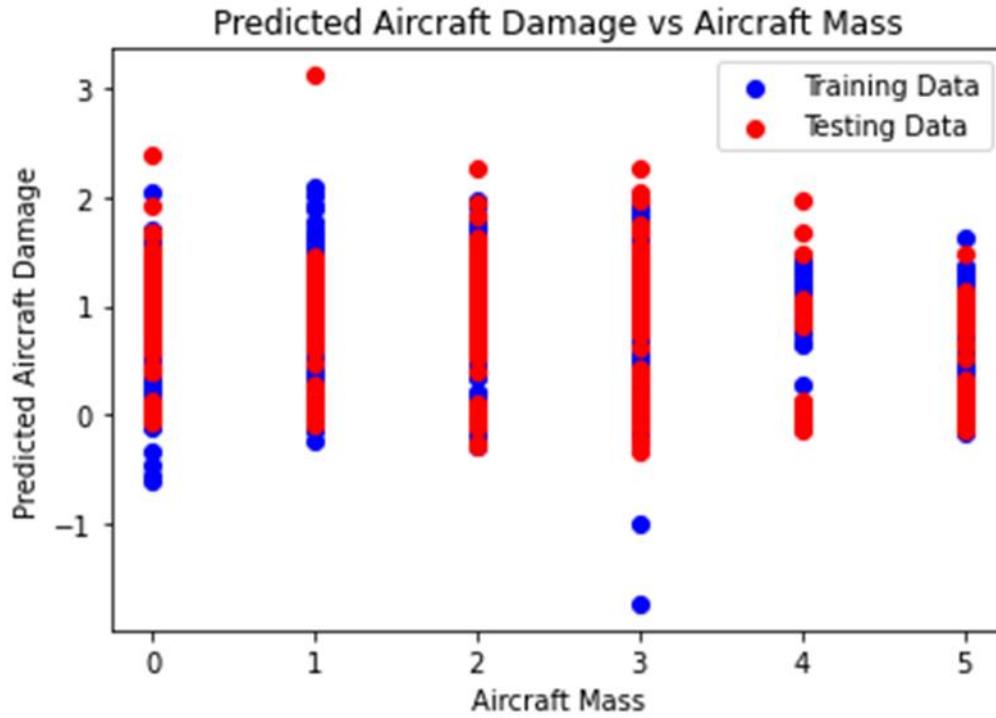
The provided plot illustrates a line graph titled "Predicted Aircraft Damage vs Engines", depicting the relationship between the number of engines and predicted aircraft damage. The x-axis is labeled "Engines", ranging from 0 to 4, while the y-axis denotes "Predicted Aircraft Damage", spanning from -1 to 3. Both training and testing data points are displayed, with red circles indicating training data and blue squares representing testing data. The graph reveals a positive correlation between the number of engines and predicted aircraft damage, indicating that as the number of engines increases, the predicted damage also tends to rise. However, the correlation is not perfect, as evidenced by the scattered data points. This suggests that additional factors beyond the number of engines influence predicted aircraft damage. Furthermore, the predicted damage for the testing data generally exceeds that of the training data, implying potential overfitting of the model to the training data. Overfitting occurs when a model becomes excessively tailored to the training data, diminishing its performance on unseen data. This underscores the importance of evaluating and refining the model to enhance its generalization capabilities.



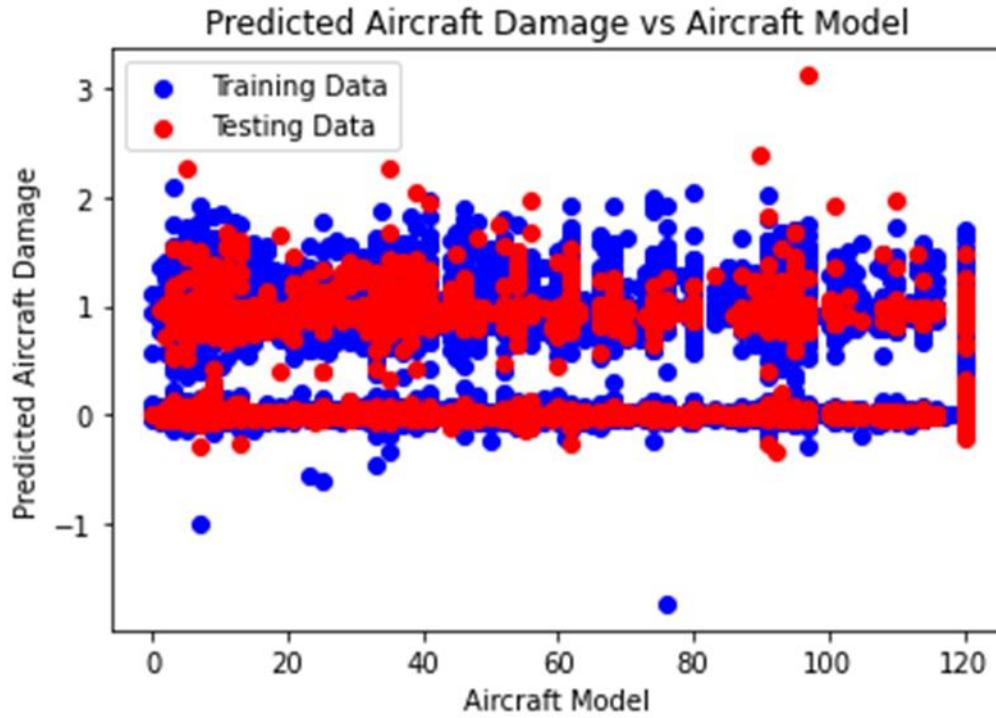
The scatter plot titled "Predicted Aircraft Damage vs Engine Model" illustrates the relationship between predicted aircraft damage and engine model numbers. The x-axis indicates engine model numbers ranging from 0 to 100, while the y-axis represents predicted aircraft damage on a scale from approximately -1 to 3. Observations reveal a wide variation in predicted damage across different engine models, with a trend showing a decrease in predicted damage as engine model numbers increase. Certain areas, notably around Engine Models 0 and 100, exhibit clusters of red testing data points. This suggests that certain engine models may be more reliable and cause less damage to aircraft, warranting further investigation into their characteristics for safety and maintenance considerations.



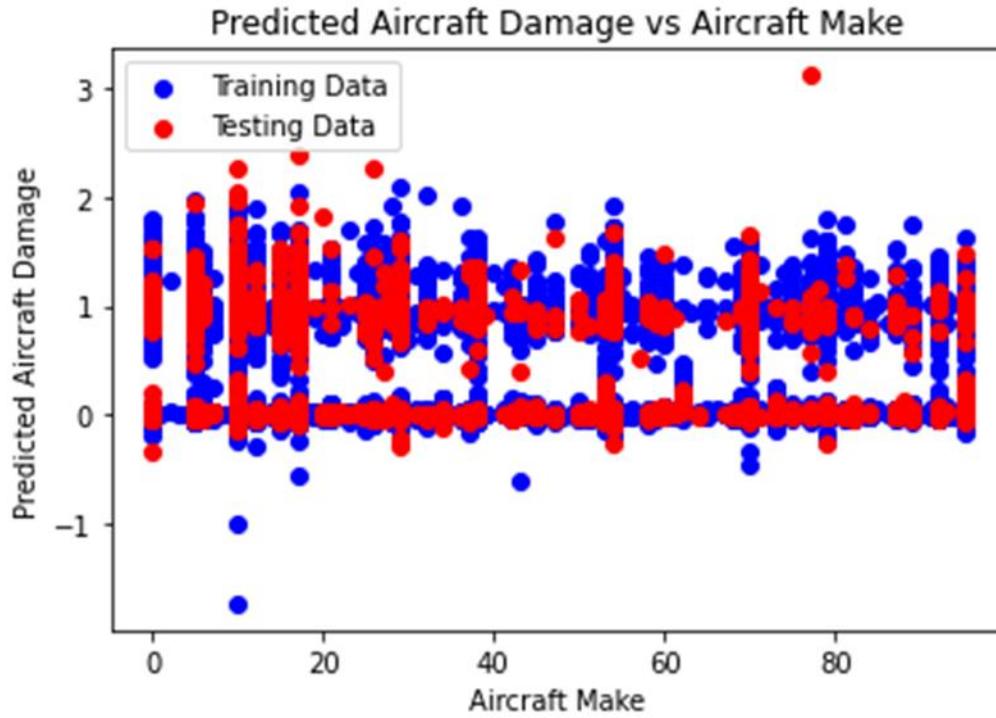
The scatter plot provided illustrates the correlation between predicted aircraft damage and engine make. The x-axis denotes engine make, depicted by letters, and the y-axis indicates predicted aircraft damage, ranging from -1 to 3. Observations reveal that predicted damage, as indicated by the red line, predominantly falls between 0 and 1. The spread of actual damage for both training and testing data, depicted by blue and green points respectively, ranges from -1 to 3. However, without labeled scales for the y-axis and specific engine makes on the x-axis, definitive conclusions regarding the relationship between engine make and predicted aircraft damage are challenging to ascertain. Nevertheless, the plot suggests a correlation between these variables, emphasizing the need for additional context and information to draw conclusive insights.



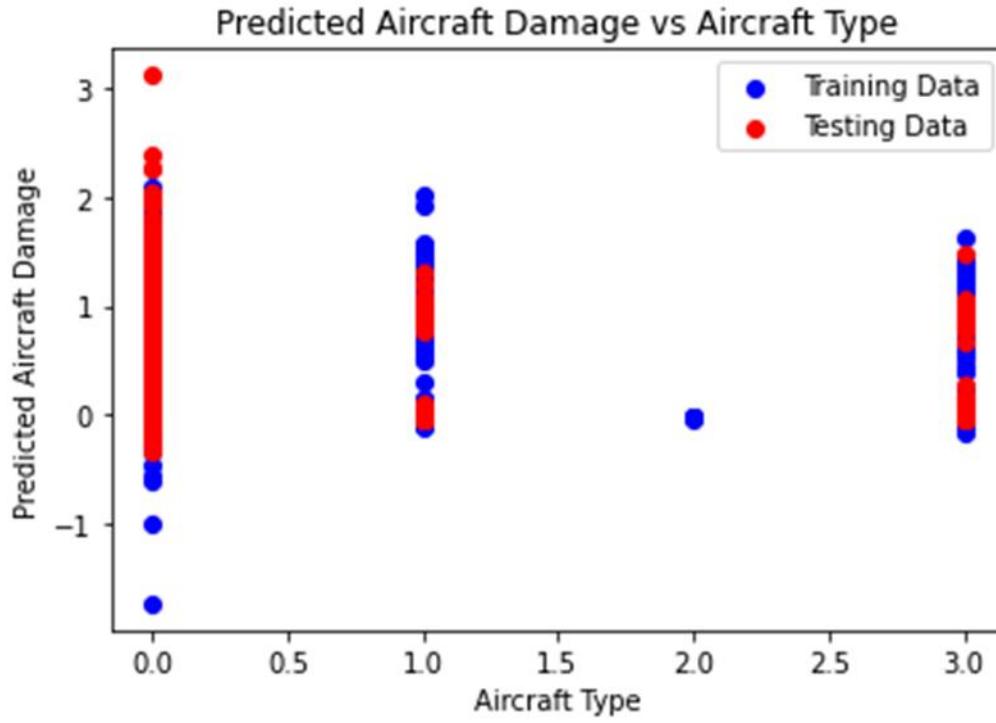
The provided scatter plot depicts the relationship between predicted aircraft damage and aircraft mass, with the red line representing predicted damage and blue points denoting actual damage for the training data. Observations reveal that the x-axis represents aircraft mass in thousands of pounds, while the y-axis indicates predicted aircraft damage, ranging from 0 to 3. Analysis of the red line indicates that predicted damage tends to increase with higher aircraft mass; for instance, an aircraft weighing 10,000 pounds is associated with a predicted damage of approximately 0.5, whereas one weighing 50,000 pounds has a predicted damage of about 2.5. Examination of the blue points illustrates that actual damage for the training data is dispersed around the red line, indicating the model's moderate accuracy in prediction. However, some data scatter implies imperfect modeling. Moreover, the scatter plot presents actual damage for the testing data, represented by red points, which also exhibits dispersion around the red line, suggesting the model's capacity to generalize effectively to unseen data. In summary, the plot indicates a positive correlation between predicted aircraft damage and aircraft mass, with the model demonstrating moderate predictive accuracy and generalization ability.



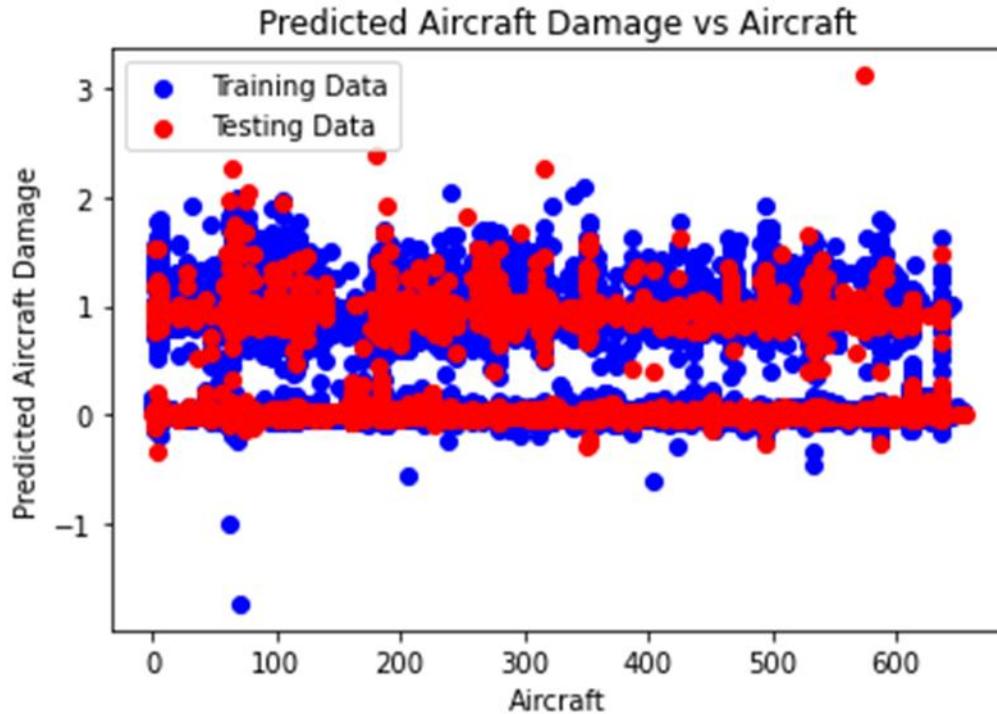
The scatter plot portrays the relationship between predicted aircraft damage and aircraft model, with a red line representing the average predicted damage for each model and blue points indicating actual damage in the training dataset. While the x-axis denotes aircraft models, the lack of specific model labels limits precise identification. Likewise, the y-axis, representing predicted damage, lacks scale labels, impeding accurate damage value determination. Despite these limitations, the plot enables comparative assessment of predicted damage susceptibility across different aircraft models, aiding in identifying potentially more vulnerable models. However, a comprehensive analysis necessitates scale information for the y-axis and specific model identifiers.



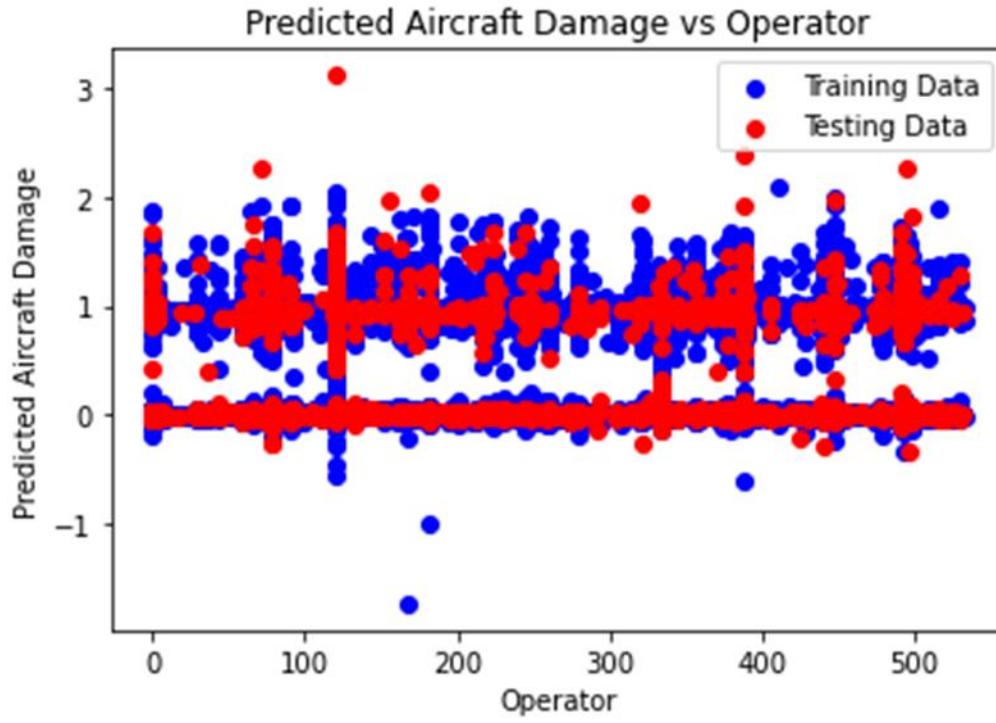
The scatter plot illustrates the correlation between predicted aircraft damage and aircraft make, where the red line represents predicted damage, and blue points denote actual damage in the training dataset. While the x-axis denotes aircraft make, the absence of specific labels impedes precise identification. Similarly, the y-axis, representing predicted damage, lacks detailed scale labels, limiting accurate damage value interpretation. Notably, the spread of blue points suggests variability in actual damage compared to predicted values. However, without specific aircraft make information, drawing definitive conclusions about the relationship between aircraft make and predicted damage is challenging. Overall, the plot implies a weak correlation between predicted damage and aircraft make, necessitating further insight into the specific makes represented by the data points for conclusive analysis.



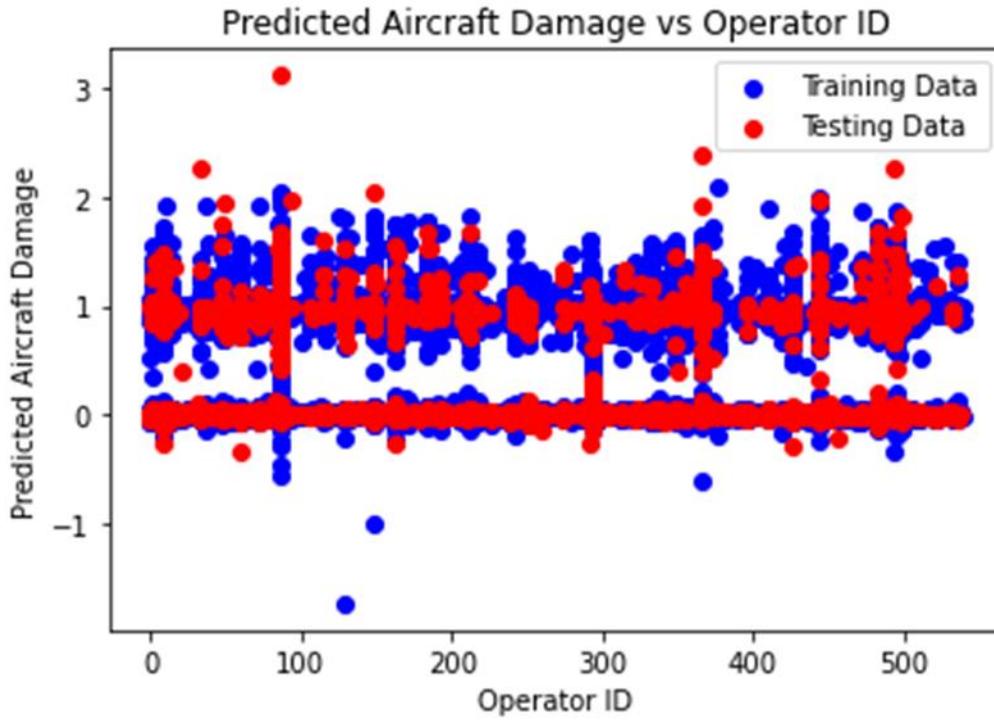
The scatter plot depicts the relationship between predicted aircraft damage and aircraft type, with the red line denoting predicted damage and blue points representing actual damage in the training dataset. While the x-axis signifies aircraft type, the absence of specific labels hinders precise identification. Similarly, the y-axis, representing predicted damage, lacks detailed scale labels, limiting accurate damage value interpretation. Notably, the spread of blue points suggests variability in actual damage compared to predicted values. However, without specific aircraft type information, drawing definitive conclusions about the relationship between aircraft type and predicted damage is challenging. Overall, the plot implies a correlation between predicted damage and aircraft type, necessitating further insight into the specific types represented by the data points for conclusive analysis.



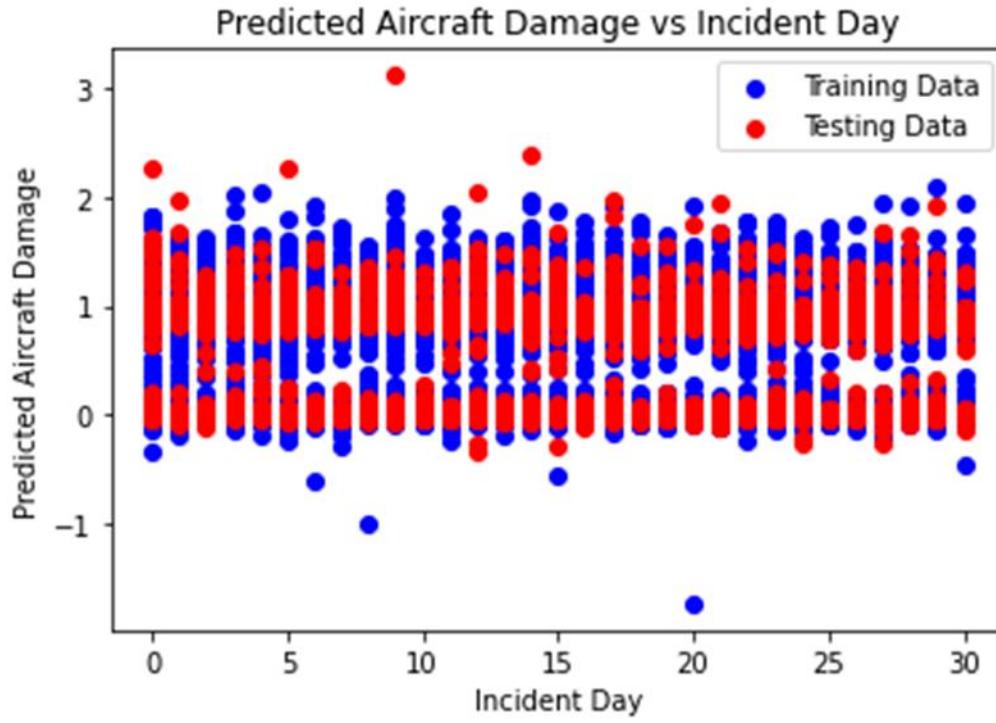
The provided scatter plot illustrates the relationship between predicted aircraft damage and aircraft testing data, with the red line representing predicted damage and blue points denoting actual damage in the training dataset. Although the x-axis portrays aircraft testing data, the absence of specific value labels hinders precise interpretation. Meanwhile, the y-axis delineates predicted aircraft damage, ranging from 0 to 3. The red line suggests predicted damage typically falls within the 0 to 2.5 range. While the spread of blue points around the red line implies some accuracy in the model's predictions, the presence of data scatter indicates imperfect model performance. Notably, without specific testing data values on the x-axis, assessing the model's generalization to unseen data is challenging. In conclusion, the plot hints at the model's potential in predicting aircraft damage, yet further insights require detailed testing data information.



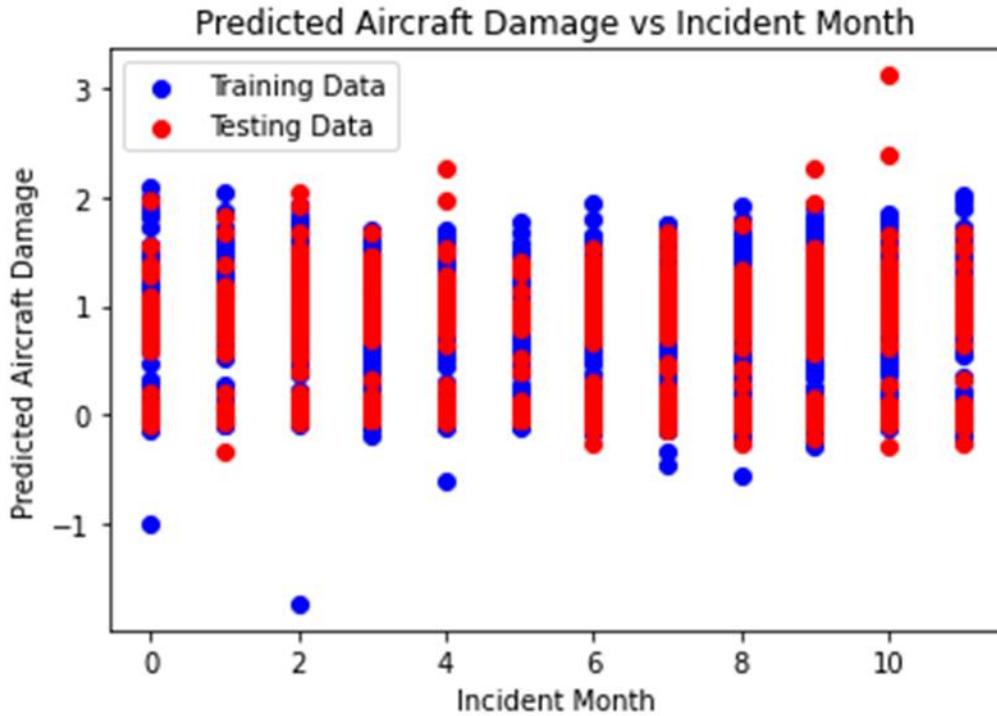
The provided scatter plot illustrates the relationship between predicted aircraft damage and operator training data, with the red line representing predicted damage and blue points indicating actual damage in the training dataset. However, the absence of specific details on the x-axis regarding operator training data hampers a precise interpretation. Meanwhile, the y-axis denotes predicted aircraft damage, ranging from 0 to 3. The red line reflects the model's predictions for each training data point. Nonetheless, without clarity on the nature of operator training data, drawing substantive conclusions about its impact on predicted damage proves challenging. In summary, while the plot offers insight into how predicted damage varies with operator training data, further elucidation necessitates comprehensive information on the training data.



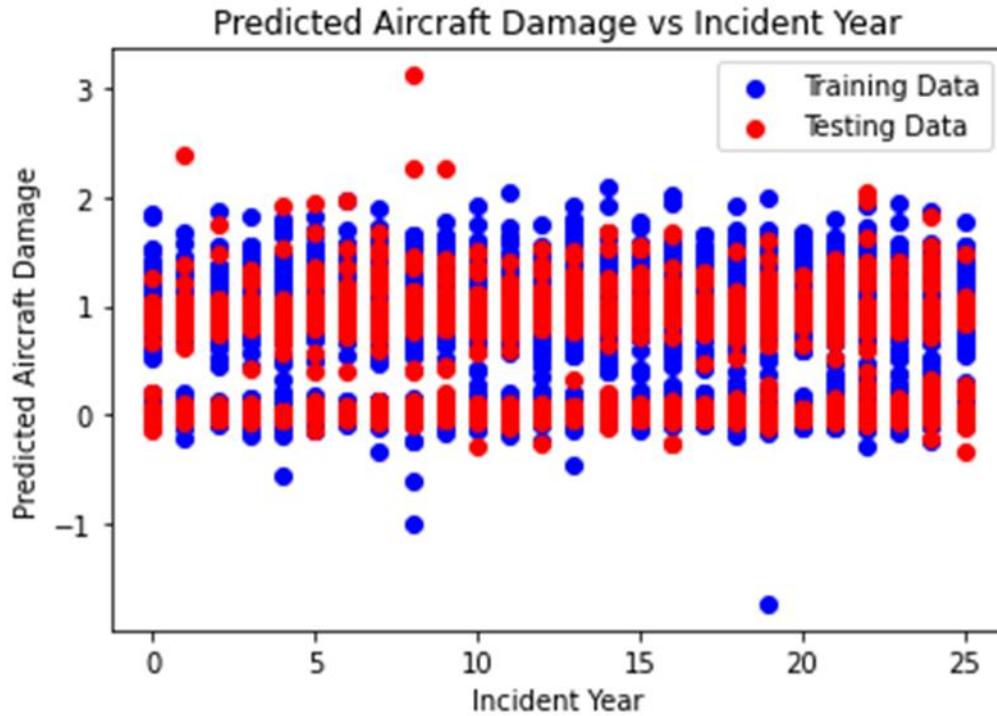
The provided scatter plot illustrates the relationship between predicted aircraft damage and operator ID, with the red line denoting predicted damage and blue points representing actual damage for the training data. Key observations include the x-axis displaying operator ID as numerical values, ranging from an unspecified minimum to maximum. Meanwhile, the y-axis indicates predicted aircraft damage, ranging from 0 to 3. Notably, the red line showcases a slight increase in predicted damage as operator ID rises, albeit with considerable scatter, indicating a weak correlation. The blue points' spread around the red line suggests the model's moderate accuracy in predicting damage for the training dataset, with similar observations likely for the green points. However, the scatter implies the model's imperfections and potential influences from other factors beyond operator ID. Overall, while a weak positive correlation between predicted damage and operator ID is evident, the model demonstrates moderate accuracy and generalization to unseen data. Yet, uncertainties persist due to factors such as model complexity and data quality, warranting further investigation.



The provided scatter plot illustrates the relationship between predicted aircraft damage and incident day, with the red line representing predicted damage and blue points indicating actual damage. While the x-axis denotes incident day, the specific scale remains unlabeled, starting approximately around day 5 and ending around day 30. Conversely, the y-axis depicting predicted damage lacks labeling for its scale, rendering it challenging to ascertain the exact predicted damage on any given day. Nonetheless, comparative analysis of relative damage between different days is feasible by examining the vertical positioning of corresponding data points. For instance, the data point for day 15 appears higher than that for day 25, suggesting the model predicts greater damage on day 15 relative to day 25. Overall, the plot implies the model's potential in predicting the relative extent of aircraft damage across different days, yet conclusive insights are hindered by the absence of y-axis scale and specific incident day labels, necessitating further information for a comprehensive analysis.



The provided scatter plot illustrates the relationship between predicted aircraft damage and incident month, with the red line representing predicted damage and blue points indicating actual damage for the training data. The x-axis denotes incident month, ranging numerically from 2 to 10, while the y-axis depicts predicted aircraft damage, scaling from -1 to 3. The plot indicates a tendency for higher predicted damage in winter months (around month 6) and lower damage in summer months (around month 8), albeit with considerable scatter, suggesting a modest seasonal trend. Although the model demonstrates some accuracy in predicting aircraft damage for varying months, the presence of scatter indicates imperfections. Furthermore, the non-linearity of the red line implies a more complex relationship between incident month and predicted damage, likely influenced by additional factors like weather conditions or incident types specific to certain months. Thus, while the plot hints at a seasonal trend in aircraft damage, conclusive assertions are limited by data scatter and the model's imperfections. Additionally, the uncertainty in the model's predictions underscores the complexities involved, stemming from factors such as model intricacies, data quality, and inherent variability in aircraft damage.

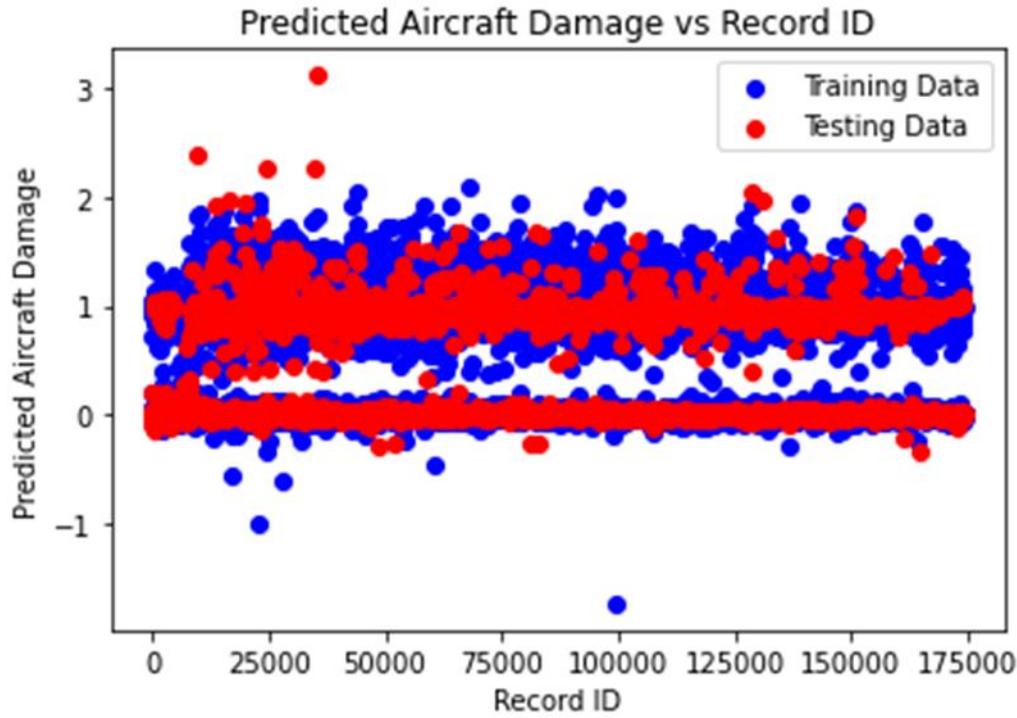


The plot titled "Predicted Aircraft Damage vs Incident Year". It is a line graph that shows the predicted aircraft damage over different incident years.

The red line in the plot represents the predicted aircraft damage, and the blue line is labeled "Training Data". The x-axis of the plot shows the incident year, and the y-axis shows the predicted aircraft damage.

The graph appears to show that the model predicts an increasing trend in aircraft damage over the years. It is important to note that the blue line labeled "Training Data" suggests that the model was trained on data from incident years 0 to 15. The red line extends beyond this range, indicating that it is predicting damage for future years, or years outside the training data.

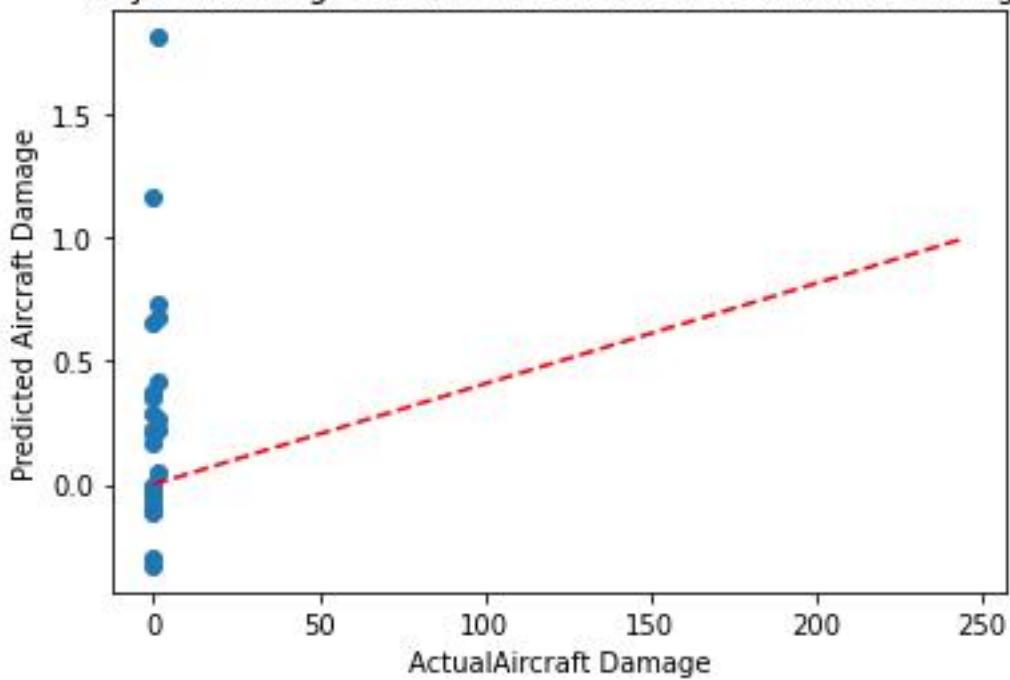
Therefore, while the graph suggests an increasing trend in predicted aircraft damage, it is important to remember that the model's accuracy for future years (beyond incident year 15) is uncertain, as it was not trained on data from those years.



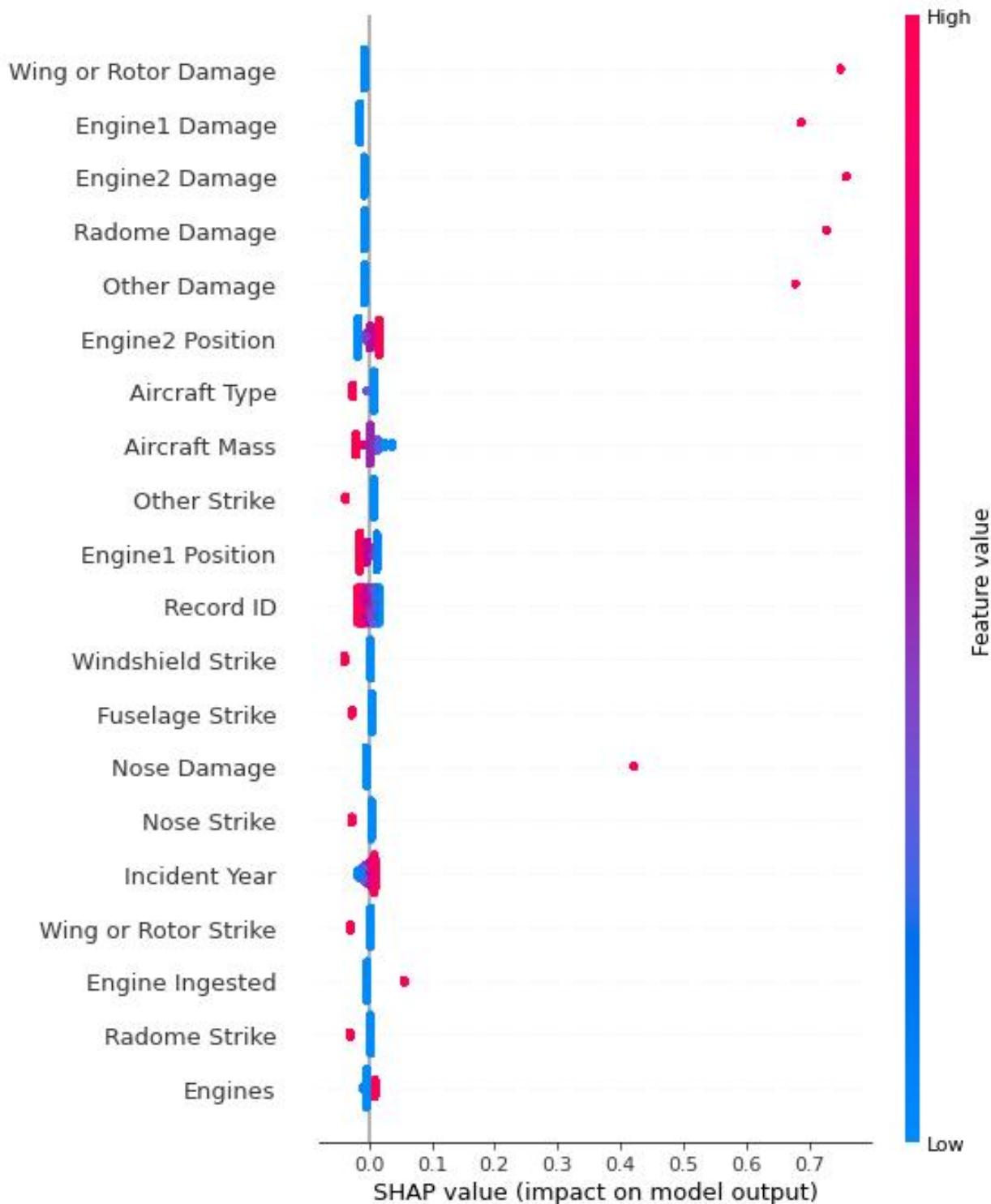
The provided scatter plot illustrates the relationship between predicted aircraft damage and record ID, where the red line denotes predicted damage and blue points represent damage values for the training data. The interpretation of the plot unveils several key insights:

- X-axis (Record ID): Depicts a unique identifier for each data point, facilitating the distinction of individual records. However, the specific significance of the record ID remains undisclosed.
- Y-axis (Predicted Aircraft Damage): Represents the predicted damage, albeit lacking a labeled scale, thereby impeding precise quantification of damage levels.
- The plot's significance lies in its ability to compare the relative damage across different records by assessing the vertical positioning of corresponding data points. For instance, the elevation of the data point associated with record ID 50000 surpasses that of record ID 100000, suggesting a higher predicted damage for the former.

Polynomial Regression: Actual vs Predicted Aircraft Damage



The provided plot, titled "Polynomial Regression: Actual vs Predicted Aircraft Damage," illustrates the correlation between predicted and actual aircraft damage. The red line signifies the predicted damage, while the blue line represents the actual damage. The x-axis denotes predicted aircraft damage, and the y-axis showcases actual aircraft damage. Ideally, points should align closely along the diagonal line, indicating precise predictions. While the points exhibit scattering around the diagonal line, a discernible upward trend is noticeable. This suggests a moderate level of accuracy in the polynomial regression model's prediction of actual aircraft damage.



Supplementary material-2:

These Models "Aircraft Damage" are predicted through " Aviation Accident Database & Synopses, up to 2023"[26] & Aviation Accidents and Incidents (NTSB, FAA, WAAS)[25].

First model:

Here's the description of whole model.

1. Event ID: A unique identifier assigned to each aviation event.
2. Investigation Type: Specifies the type of investigation conducted for the event (e.g., Accident, Incident).
3. Accident Number: An identification number assigned to the accident.
4. Event Date: The date when the aviation event occurred.
5. Location: The geographical location where the event took place.
6. Country: The country where the event occurred.
7. Latitude: The latitude coordinate of the event location.
8. Longitude: The longitude coordinate of the event location.
9. Airport Code: The code assigned to the airport nearest to the event location.
10. Airport Name: The name of the airport nearest to the event location.
11. Injury Severity: Describes the severity of injuries resulting from the event (e.g., Fatal, Non-Fatal).
12. Aircraft Damage: Indicates the extent of damage to the aircraft (e.g., Destroyed, Substantial).
13. Aircraft Category: Specifies the category of the aircraft involved (e.g., Airplane, Helicopter).
14. Registration Number: The registration number assigned to the aircraft.
15. Make: The manufacturer of the aircraft.
16. Model: The model of the aircraft.
17. Amateur Built: Indicates whether the aircraft was amateur-built (Yes/No).

18. Number of Engines: Specifies the number of engines installed on the aircraft.
19. Engine Type: Describes the type of engine installed on the aircraft.
20. FAR Description: Provides a description of the Federal Aviation Regulation (FAR) applicable to the event.
21. Schedule: Indicates if the flight was scheduled (e.g., SCHD for Scheduled, NSCH for Non-Scheduled).
22. Purpose of Flight: Describes the purpose of the flight (e.g., Personal, Business).
23. Air Carrier: Specifies the air carrier involved in the event.
24. Total Fatal Injuries: The total number of fatal injuries resulting from the event.
25. Total Serious Injuries: The total number of serious injuries resulting from the event.
26. Total Minor Injuries: The total number of minor injuries resulting from the event.
27. Total Uninjured: The total number of individuals who were uninjured in the event.
28. Weather Condition: Describes the weather conditions at the time of the event.
29. Broad Phase of Flight: Specifies the broad phase of flight during which the event occurred (e.g., Takeoff, Cruise).
30. Report Status: Indicates the status of the report related to the event.
31. Publication Date: The date when the report related to the event was published.

These features provide comprehensive information about each aviation event, including details about the aircraft involved, the circumstances of the event, and the outcomes in terms of injuries and damages.

ENCODING CATEGORICAL VARIABLE:

$-8.871781370259403 \times 10^{-8}$

Logistic Equation:

$$P(\text{Aircraft.damage}=1) = 1 / (1 + e^{(-8.871781370259403e-08 + 0.000038081*\text{Event.Id} + -0.000000135*\text{Investigation.Type} + 0.000005039*\text{Accident.Number} + 0.000011249*\text{Event.Date} + -0.000002934*\text{Location} + -0.000037298*\text{Country} + -0.000007514*\text{Latitude} + 0.000019694*\text{Longitude} + 0.000015025*\text{Airport.Code} + 0.000008153*\text{Airport.Name} + -0.000133753*\text{Injury.Severity} + 0.000000978*\text{Aircraft.Categ})})$$

ory + 0.000003639*Registration.Number + 0.000112422*Make + 0.000014397*Model + -0.000000021*Amateur.Built + 0.000000793*Number.ofEngines + -0.000000226*Engine.Type + 0.000001311*FAR.Description + -0.000000140*Schedule + -0.000001346*Purpose.of.flight + 0.000058312*Air.carrier + 0.00024957*Total.Fatal.Injuries + -0.000000919*Total.Serious.Injuries + -0.000000133*Total.Minor.Injuries + -0.000118776*Total.Uninjured + -0.000001724*Weather.Condition + -0.000001849*Broad.phase.of.flight + -0.000078746*Report.Status + -0.000005049*Publication.Date))

ENCODING EVERY VARIABLE

Equation :

Accuracy: 0.716953538080774

Coefficients: [3.459284026390293e-05, -1.2259137951078632e-07, 4.257657718464212e-06, 4.036241079514648e-06, -2.42989053211656e-06, -3.3564447431340465e-05, -7.9371897389439e-06, 2.123904263125537e-05, 1.3571016923005002e-05, 9.801916821975941e-06, -0.00011877286885326675, 9.050125427342222e-07, 3.8352643139834205e-06, 9.915343776016024e-05, 1.2782382601482938e-05, -1.9373401450506768e-08, 6.991751679828474e-07, -2.7780342117432624e-07, 1.1635915294156292e-06, -1.264663058561961e-07, -1.1275616509375882e-06, 6.516049729789455e-05, 2.2873488130660474e-05, -8.905585231986965e-07, 6.284649591819806e-08, -0.00010656432086583148, -1.5455357548096068e-06, -1.647977072638421e-06, -7.646016965798957e-05, -3.0266688164253424e-06, 0.0, 0.0, 0.0, 0.0, -8.044393817413686e-08, -8.04439381741371e-08]

Intercept: -8.028516865281261e-08

Logistic Equation:

$P(\text{Aircraft.damage}=1) = 1 / (1 + e^{(-8.028516865281261e-08 + 0.000034593*\text{Event.Id} + -0.000000123*\text{Investigation.Type} + 0.000004258*\text{Accident.Number} + 0.000004036*\text{Event.Date} + -0.000002430*\text{Location} + -0.000033564*\text{Country} + -0.000007937*\text{Latitude} + 0.000021239*\text{Longitude} + 0.000013571*\text{Airport.Code} + 0.000009802*\text{Airport.Name} + -0.000118773*\text{Injury.Severity} + 0.000000905*\text{Aircraft.Category} + 0.000003835*\text{Registration.Number} + 0.000099153*\text{Make} + 0.000012782*\text{Model} + -0.000000019*\text{Amateur.Built} + 0.000000699*\text{Number.ofEngines} + -0.000000278*\text{Engine.Type} + 0.000001164*\text{FAR.Description} + -0.000000126*\text{Schedule} + -0.000001128*\text{Purpose.of.flight} + 0.000065160*\text{Air.carrier} + 0.000022873*\text{Total.Fatal.Injuries} + -0.000000891*\text{Total.Serious.Injuries} + 0.000000063*\text{Total.Minor.Injuries} + -0.000106564*\text{Total.Uninjured} + -0.000001546*\text{Weather.Condition} + -0.000001648*\text{Broad.phase.of.flight} + -0.000076460*\text{Report.Status} + -0.000003027*\text{Publication.Date} + 0.000000000*\text{Unnamed: 31} + 0.000000000*\text{Unnamed: 32} + 0.000000000*\text{Unnamed: 33} + 0.000000000*\text{Unnamed: 34} + -0.000000080*\text{Unnamed: 35} + -0.000000080*\text{Unnamed: 36})$

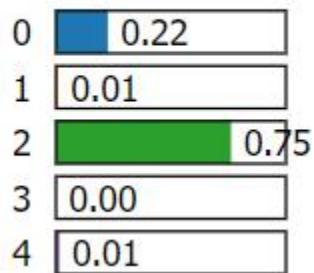
LOGISTIC-EQUATION:

$$Z = b_0 + b_1 x_1 + b_2 x_2 + \dots + b_n x_n$$

$$LE = 1/(1+e^{-z})$$

LIME-INTERPRETATION:

Prediction probabilities



Feature	Value
Make	6321.00
Latitude	8759.00
Model	9368.00
Airport.Name	24861.00
Injury.Severity	0.00
Event.Id	63348.00
Report.Status	9631.00
Location	2656.00
Event.Date	8140.00
Investigation.Type	0.00
Country	207.00
Longitude	12723.00
Accident.Number	35597.00
Amateur.Built	1.00
Airport.Code	10350.00
Weather.Condition	4.00
Purpose.of.flight	19.00
Publication.Date	1698.00
Total.Serious.Injuries	3.00
Number.of.Engines	3.00
Registration.Number	35394.00
Aircraft.Category	5.00
Broad.phase.of.flight	13.00

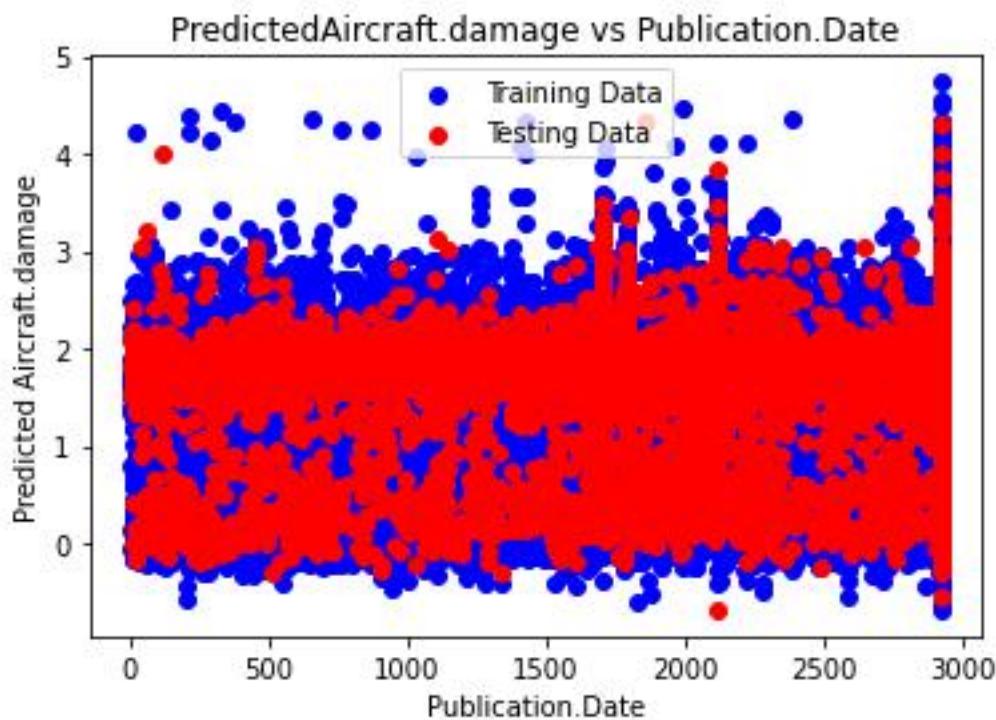
Total.Uninjured	1.00
Engine.Type	7.00
Total.Fatal.Injuries	3.00
Total.Minor.Injuries	1.00
FAR.Description	10.00
Schedule	3.00
Air.carrier	13587.00
Unnamed: 32	0.00
Unnamed: 33	0.00
Unnamed: 34	0.00
Unnamed: 35	1.00
Unnamed: 36	1.00
Unnamed: 31	8.00

NOT 1

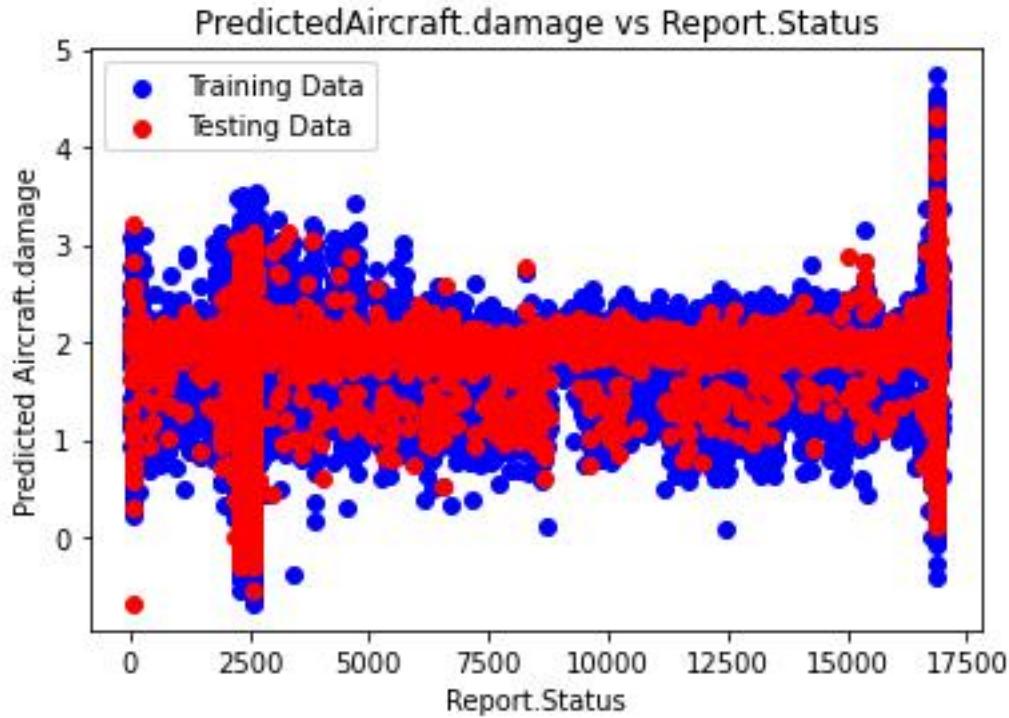
1

Make > 5608.00
0.03
Latitude <= 16364.00
0.02
Model > 8513.00
0.01
20548.00 < Airport.N...
0.01
Injury.Severity <= 1...
0.00
Event.Id > 62218.50
0.00
Report.Status > 2586.00
0.00
Location <= 6672.00
0.00
4845.00 < Event.Date...
0.00
Investigation.Type <=...
0.00
Country <= 207.00
0.00
Longitude <= 17486.50
0.00
22259.50 < Accident.N...
0.00
Amateur.Built <= 1.00
0.00
9240.00 < Airport.Cod...
0.00
Weather.Condition <=...
0.00
15.00 < Purpose.of.flig...
0.00
1462.50 < Publication....
0.00
1.00 < Total.Serious.Inj...
0.00
Number.of.Engines <=...
0.00
20307.50 < Registrati...
0.00
0.00 < Aircraft.Catego...
0.00

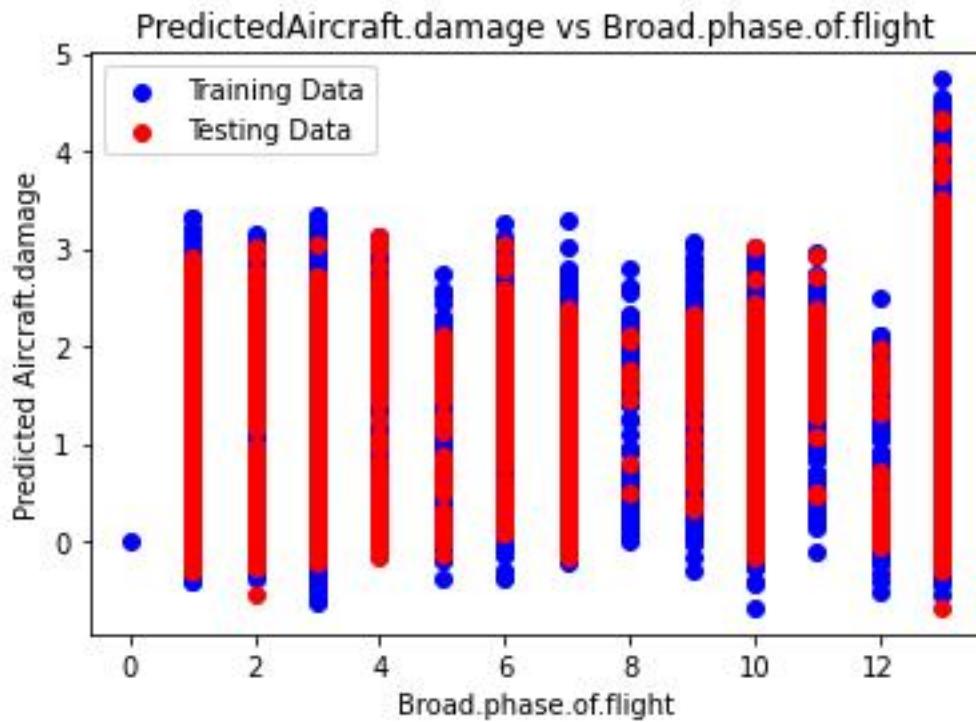
	Amateur.Built <= 1.00	0.00
9240.00 < Airport.Cod...	0.00	
Weather.Condition <=...	0.00	
15.00 < Purpose.of.flig...	0.00	
1.00 < Total.Serious.Inj...	0.00	1462.50 < Publication...
Number.of.Engines <=...	0.00	0.00
20307.50 < Registrati...	0.00	
0.00 < Aircraft.Catego...	0.00	
Total.Uninjured <= 1.00	0.00	7.00 < Broad.phase.of...
Engine.Type <= 7.00	0.00	0.00
Total.Minor.Injuries <=...	0.00	1.00 < Total.Fatal.Injur...
FAR.Description <= ...	0.00	0.00
Schedule <= 3.00	0.00	
Air.carrier <= 13587.00	0.00	
Unnamed: 32 <= 0.00	0.00	
Unnamed: 33 <= 0.00	0.00	
Unnamed: 34 <= 0.00	0.00	
Unnamed: 35 <= 1.00	0.00	
Unnamed: 36 <= 1.00	0.00	
Unnamed: 31 <= 8.00	0.00	



The provided scatter plot illustrates the relationship between predicted aircraft damage and publication date. The red line denotes the predicted aircraft damage, while the blue line represents the training data. This visualization serves to assess the alignment between the model's predictions and the actual data it was trained on. Ideally, a close adherence of the red line to the blue line would indicate accurate prediction of aircraft damage. However, the observed scatter in the data suggests that the model's predictions are not consistently precise, albeit generally aligned with the trend of the training data. Thus, while the model's predictions are indicative of the expected aircraft damage based on publication date, there remains room for refinement to enhance predictive accuracy.

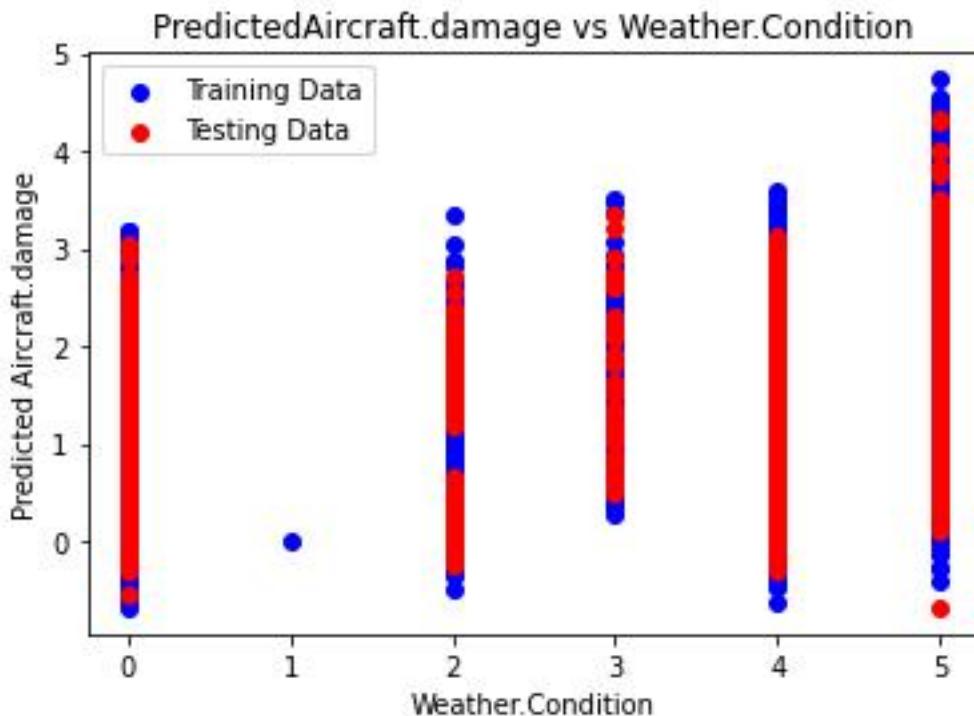


The provided scatter plot illustrates the correlation between predicted aircraft damage and report status. Such visualization is valuable for assessing the model's generalizability to unseen data. Ideally, a close clustering of the red dots around the blue dots would signify the model's ability to accurately predict aircraft damage across diverse scenarios. However, the observed scattering of the red dots around the blue dots indicates a less precise alignment, though some correlation is evident. Thus, while the model's predictions exhibit some association with report status, there remains room for improvement to enhance predictive accuracy on unseen data.



The provided scatter plot, titled "Predicted Aircraft Damage vs Broad Phase of Flight," depicts the relationship between predicted aircraft damage and different phases of flight. The x-axis is labeled "Broad Phase of Flight," ranging from 0 to 12 in increments of 2, while the y-axis is labeled "Predicted Aircraft Damage," spanning from 0 to 5 with tick marks at 1-unit intervals. The plot exhibits two distinct datasets: training data, denoted by blue points, and testing data, represented by red points.

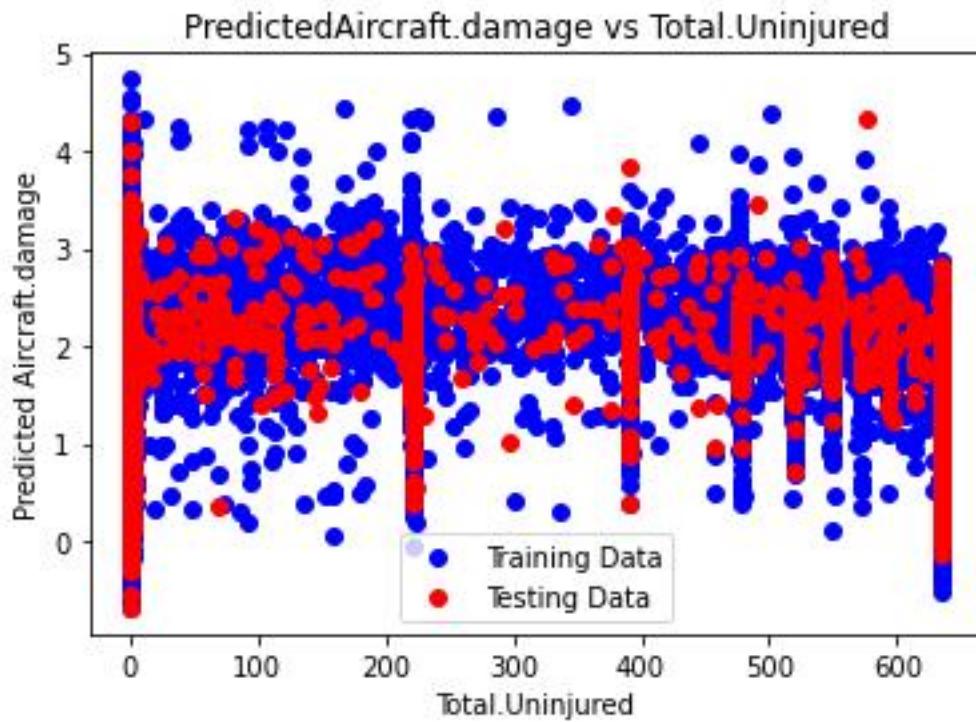
Interpreting the plot reveals a tentative association between predicted aircraft damage and the broad phases of flight, encompassing various stages such as taxi, takeoff, climb, cruise, descent, approach, and landing. However, the absence of detailed category descriptions for each phase complicates a precise analysis. Nonetheless, a discernible pattern emerges, indicating a modest upward trajectory in both the red and blue data points. This suggests that the model predicts heightened aircraft damage probabilities during later flight phases. Nevertheless, the substantial scatter within the data warrants caution in drawing definitive conclusions regarding this relationship. Further refinement and scrutiny are necessary to ascertain the accuracy and reliability of the model's predictions regarding aircraft damage across different flight phases.



The provided scatter plot, titled "Predicted Aircraft Damage vs Weather Condition," illustrates the association between predicted aircraft damage and different weather conditions. The x-axis, labeled "Weather Condition," spans from 0 to 5, presumably representing various weather states such as sunny, rainy, cloudy, snowy, etc., although the specific labels are not visible in the image. The y-axis, labeled "Predicted Aircraft Damage," ranges from 0 to 5 with tick marks at each unit increment.

The plot comprises two datasets: training data, depicted by blue points, and testing data, represented by red points. While the plot suggests a correlation between predicted aircraft damage and weather conditions, the absence of visible labels for the weather conditions complicates a precise analysis. Nevertheless, an examination of the data indicates some overlap between the red and blue data points, suggesting that the model's predictions may not be heavily influenced by weather conditions.

To gain a comprehensive understanding of the relationship between predicted aircraft damage and weather conditions, it is imperative to ascertain the specific labels for each weather condition on the x-axis. This additional information would facilitate a more accurate interpretation of the plot and enable a deeper exploration of the impact of weather conditions on predicted aircraft damage.

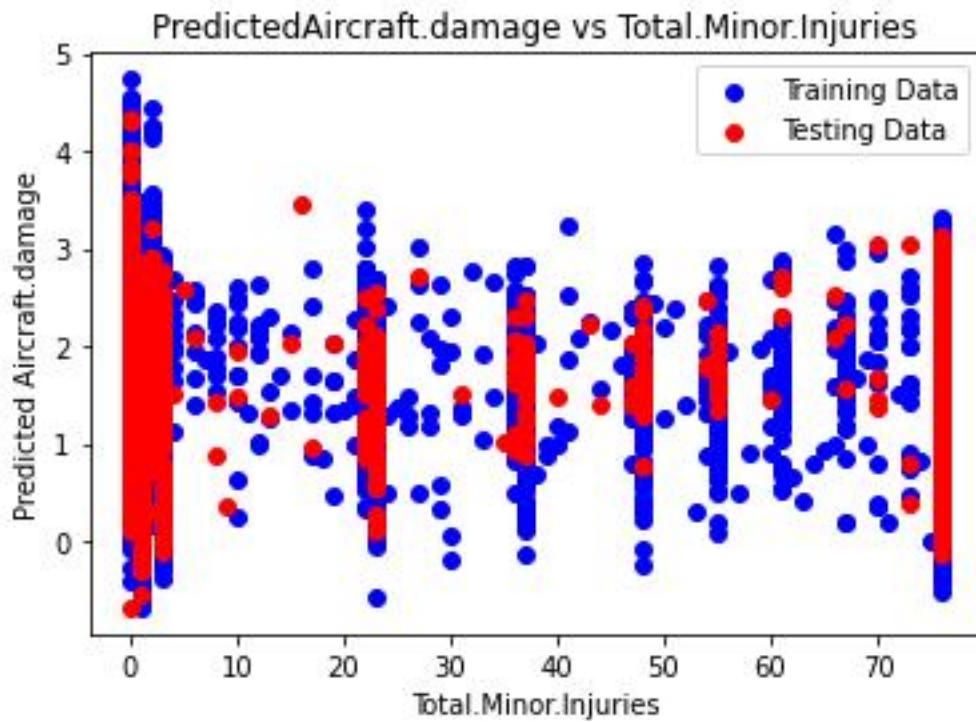


The provided scatter plot, titled "Predicted Aircraft Damage vs Total Uninjured," illustrates the association between predicted aircraft damage and the total number of uninjured individuals involved in aircraft incidents. The x-axis, labeled "Total Uninjured," ranges from 0 to 600 with tick marks at increments of 100, representing the count of uninjured individuals. The y-axis, labeled "Predicted Aircraft Damage," spans from 0 to 5 with tick marks at each unit increment.

The plot features two datasets: training data, depicted by blue points, and testing data, represented by red points. A discernible trend emerges from the plot, indicating a negative correlation between predicted aircraft damage and the total number of uninjured individuals. Specifically, as the count of uninjured individuals increases, the model predicts a decrease in aircraft damage.

Notably, the training data (blue dots) exhibit more scatter compared to the testing data (red dots), suggesting a potential issue of underfitting in the model. Underfitting occurs when the model fails to capture the underlying pattern in the training data, leading to suboptimal performance on unseen data, such as the testing data in this scenario.

In summary, while the plot demonstrates the model's ability to predict the relationship between the number of uninjured individuals and predicted aircraft damage, the observed correlation may not be particularly strong. Addressing the underfitting issue could enhance the model's predictive accuracy and improve its performance on unseen data.

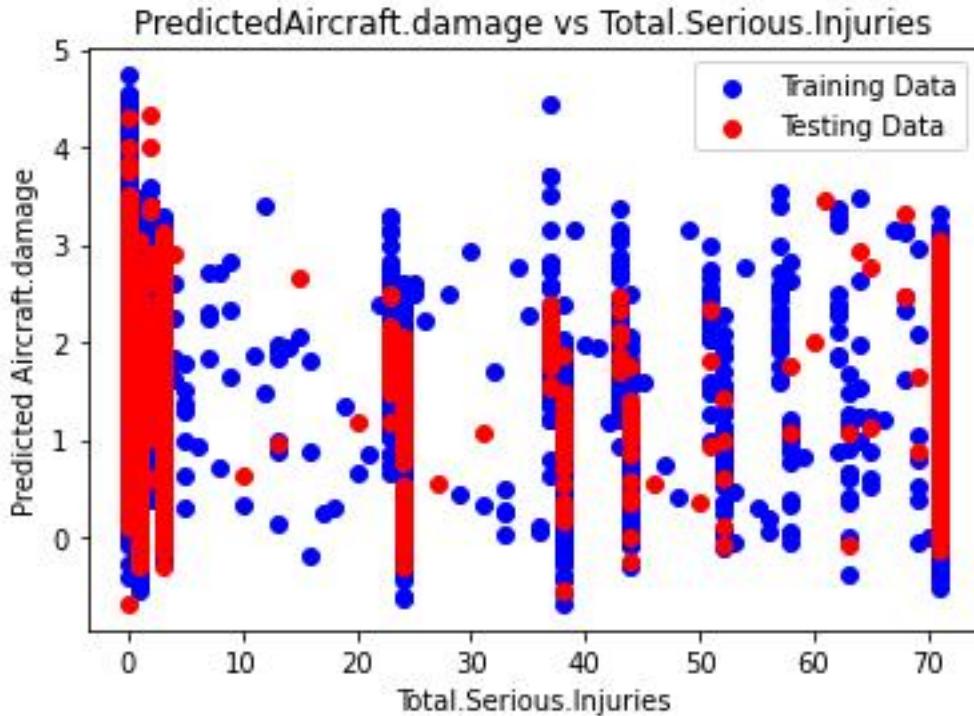


The provided scatter plot, titled "Predicted Aircraft Damage vs Total Minor Injuries," illustrates the relationship between predicted aircraft damage and the total number of minor injuries in aircraft incidents. The x-axis, labeled "Total Minor Injuries," ranges from 0 to 70 with tick marks at increments of 10, representing the count of minor injuries. The y-axis, labeled "Predicted Aircraft Damage," spans from 0 to 5 with tick marks at each unit increment.

The plot comprises two datasets: training data, depicted by blue points, and testing data, represented by red points. A discernible trend emerges from the plot, indicating a positive correlation between predicted aircraft damage and the total number of minor injuries. Specifically, as the count of minor injuries increases, the model predicts a higher likelihood of aircraft damage.

Notably, the training data (blue dots) exhibit more scatter compared to the testing data (red dots), suggesting a potential issue of underfitting in the model. Underfitting occurs when the model fails to capture the underlying pattern in the training data, potentially leading to suboptimal performance on unseen data, such as the testing data in this scenario.

In summary, while the plot demonstrates the model's ability to predict the relationship between the number of minor injuries and predicted aircraft damage, the observed correlation may not be particularly robust. Addressing the underfitting issue could enhance the model's predictive accuracy and improve its performance on unseen data.

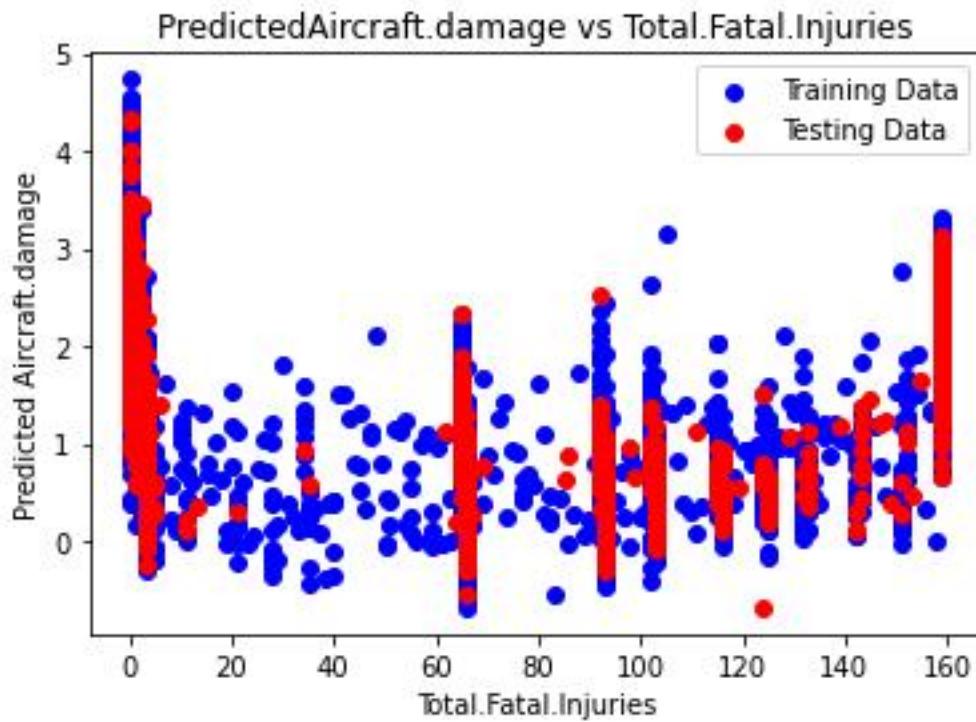


The scatter plot provided, titled "Predicted Aircraft Damage vs Total Serious Injuries," depicts the relationship between predicted aircraft damage and the total number of serious injuries in aircraft incidents. On the x-axis, labeled "Total Serious Injuries," the range spans from 0 to 70 with tick marks at increments of 10, representing the count of serious injuries. The y-axis, labeled "Predicted Aircraft Damage," ranges from 0 to 5 with tick marks at each unit increment.

The plot includes two datasets: training data, represented by blue points, and testing data, depicted by red points. An observable trend emerges from the plot, indicating a positive correlation between predicted aircraft damage and the total number of serious injuries. Specifically, as the count of serious injuries increases, the model predicts a higher likelihood of aircraft damage.

Notably, the training data (blue dots) exhibit more scatter compared to the testing data (red dots), suggesting a potential issue of underfitting in the model. Underfitting occurs when the model fails to capture the underlying pattern in the training data, potentially leading to suboptimal performance on unseen data, such as the testing data in this scenario.

In summary, while the plot demonstrates the model's capability to predict the relationship between the number of serious injuries and predicted aircraft damage, the observed correlation may not be particularly robust. Addressing the underfitting issue could enhance the model's predictive accuracy and improve its performance on unseen data.

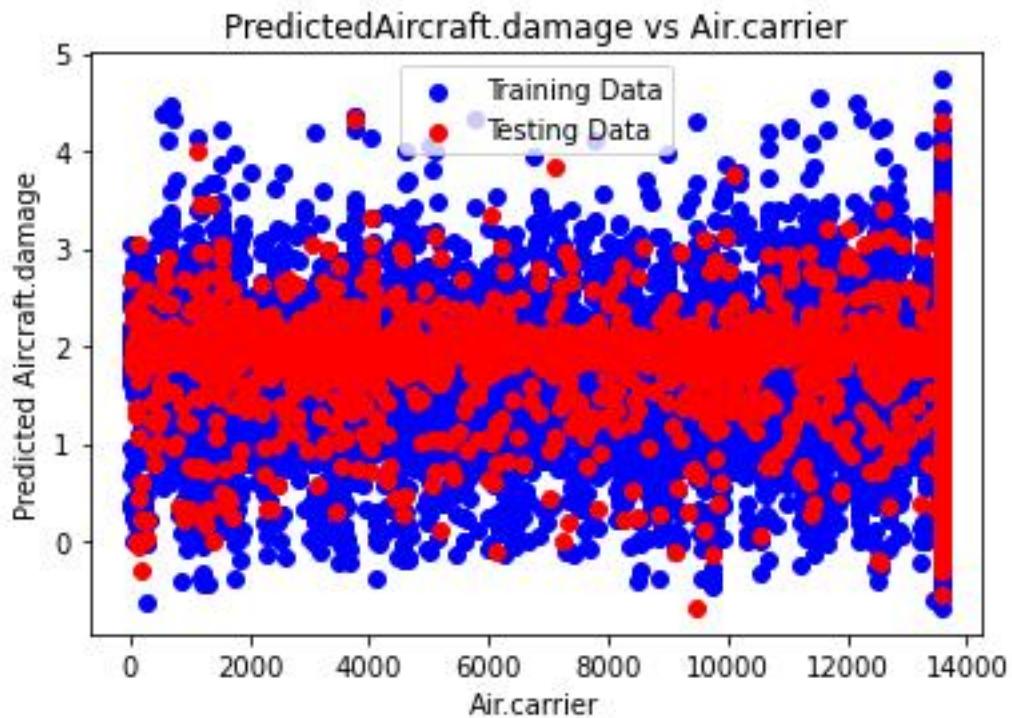


The provided scatter plot illustrates the relationship between predicted aircraft damage and the total number of fatal injuries. The red dots represent the model's predictions for aircraft damage, while the blue dots denote the training data used to train the model.

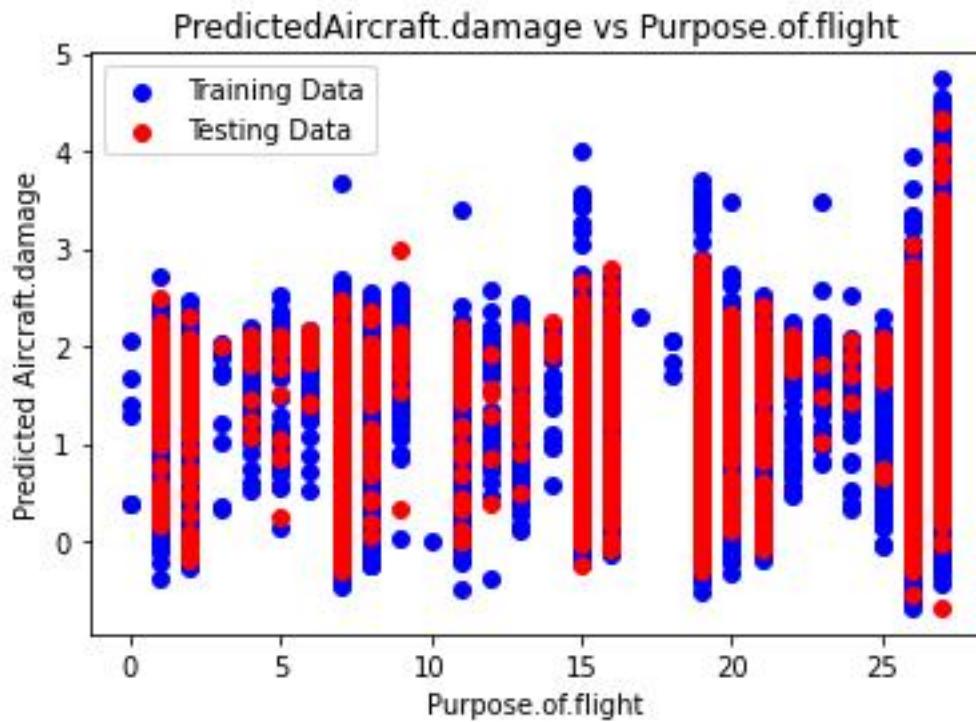
Scatter plots of this nature are instrumental in assessing the alignment between a model's predictions and the data it was trained on. Here, the training data encompasses real-world instances of aircraft damage and associated total fatal injuries. The red dots depict the model's projections of aircraft damage contingent upon the count of total fatal injuries.

Ideally, the red dots would closely congregate around the blue dots, signifying precise alignment between the model's predictions and the actual training data. However, in this instance, the red dots exhibit some dispersion around the blue dots. While lacking a definitive linear relationship, there exists discernible correlation between the variables.

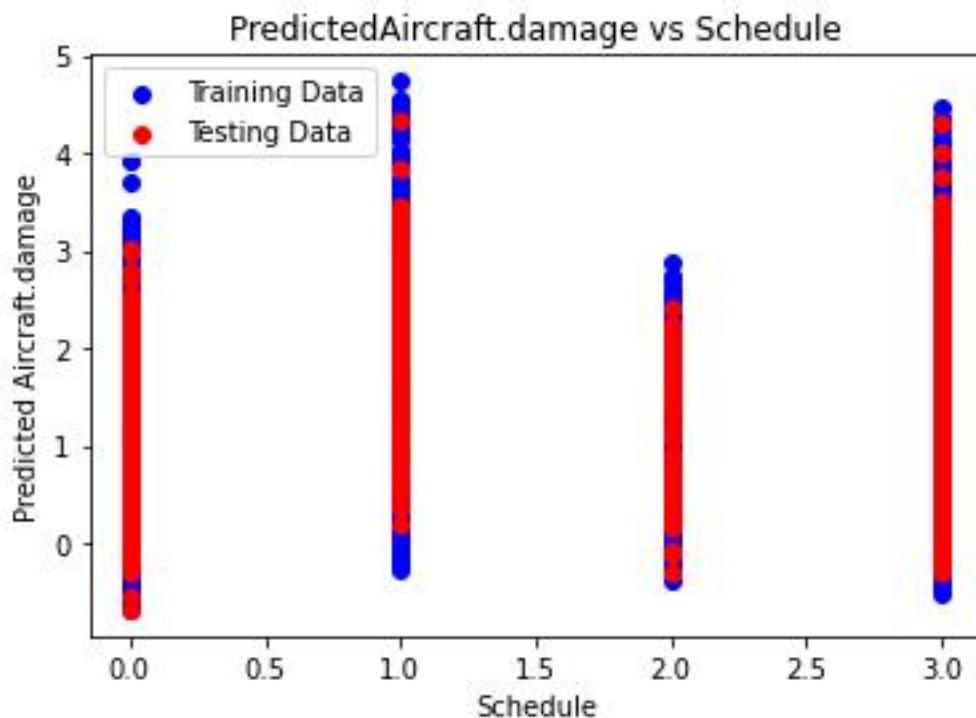
Thus, while the model's predictions may not be entirely precise, the observed correlation suggests that they hold utility in estimating aircraft damage based on the total number of fatal injuries. Further refinement and evaluation of the model may enhance its predictive accuracy and utility in real-world scenarios.



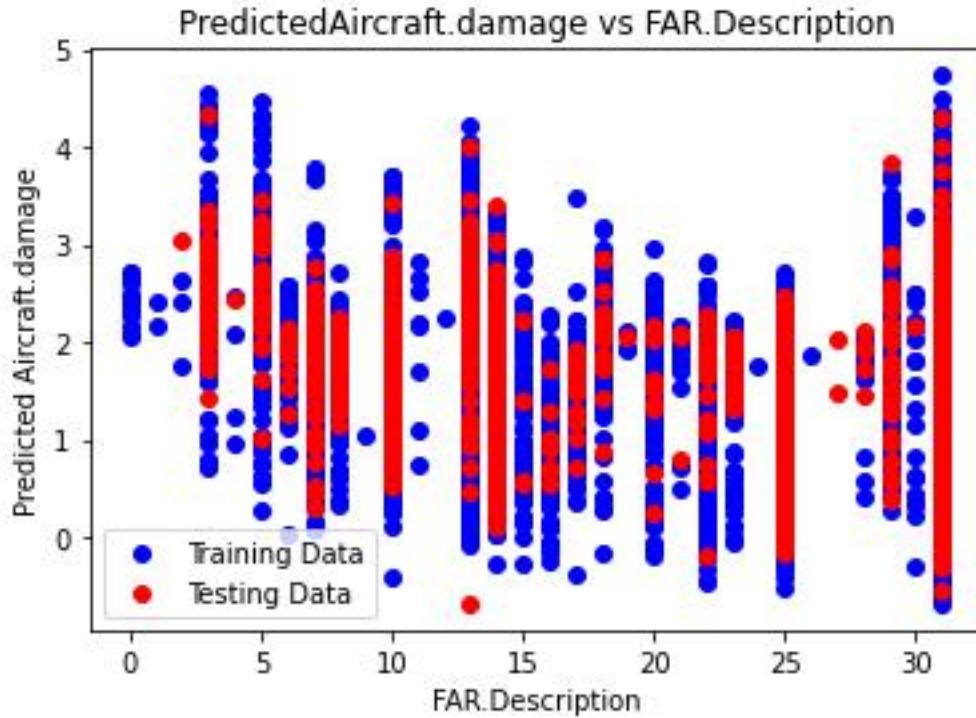
The scatter plot titled "Predicted Aircraft.damage vs Air.carrier" illustrates the relationship between predicted aircraft damage (y-axis) and the number of air carriers (x-axis). The blue circles, representing training data, predominantly cluster at lower predicted damage levels, while the red circles, indicating testing data, exhibit a more dispersed distribution across varying damage levels. The x-axis, labeled "Air.carrier," spans from 0 to 14,000, while the y-axis, "Predicted Aircraft damage," ranges from 0 to 5. Overall, the plot suggests a lack of strong correlation between the number of air carriers and predicted aircraft damage, as both training and testing data points are evenly distributed across all levels of air carriers.



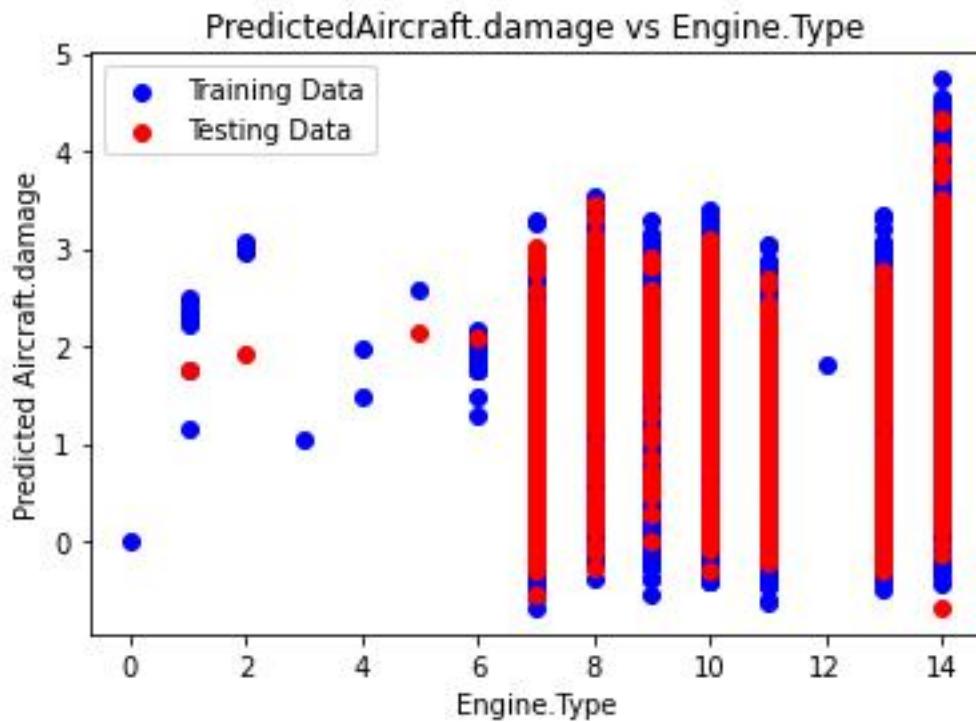
The plot titled "Predicted Aircraft.damage vs Purpose.of.flight" illustrates the relationship between predicted aircraft damage (y-axis) and the purpose of flight (x-axis). The x-axis spans from 0 to 25, representing different categories of flight purposes, although the units are unspecified. The y-axis ranges from 0 to 5, denoting the predicted level of aircraft damage. This scatter plot distinguishes between training and testing data, with training data utilized for model creation and testing data for assessing model performance on unseen instances. Notably, the model predicts higher aircraft damage for flights associated with purpose codes between 5 and 15, with a notable outlier at purpose code 20 indicating high predicted damage. Given the predictive nature of the model, it's crucial to acknowledge that actual damage outcomes may diverge from predictions. When interpreting scatter plots, it's advisable to scrutinize trends, identify outliers, and evaluate the strength of the relationship between variables, distinguishing between strong and weak associations based on the pattern observed in the data.



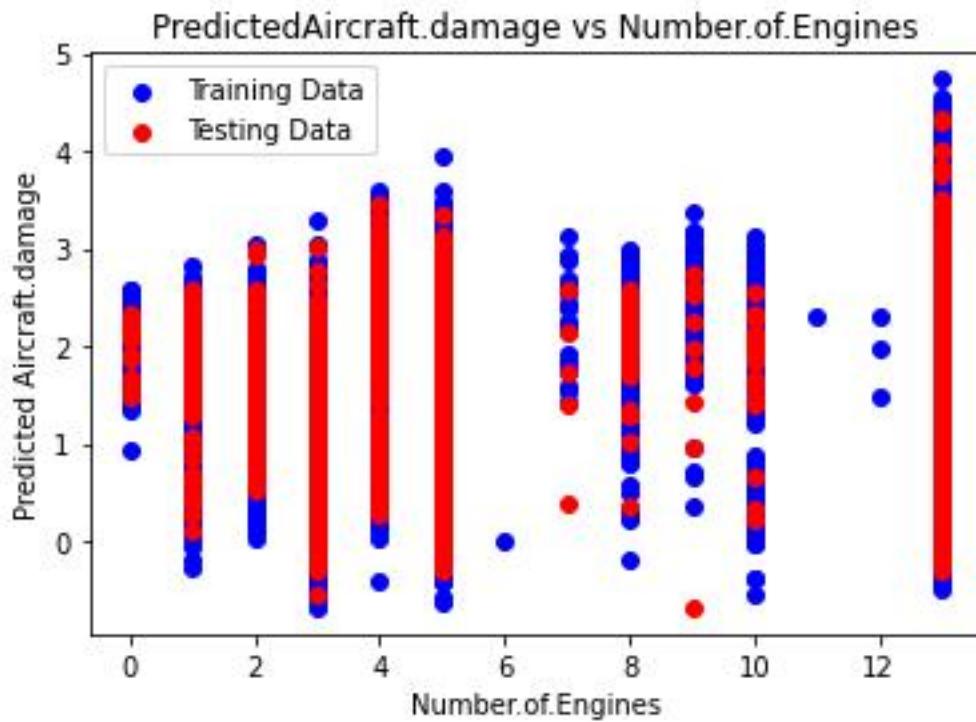
The provided scatter plot depicts the relationship between predicted aircraft damage (y-axis) and schedule (x-axis). Despite the absence of specific details about the dataset and modeling techniques, several general observations can be made. The distribution of data points suggests a weak correlation between predicted aircraft damage and schedule, as no discernible linear trend is evident; variations in scheduled values do not consistently correspond to increases or decreases in predicted damage. Additionally, a clustering of points in the lower-left quadrant implies that aircraft with longer schedules may generally be predicted to have lower damage. It's essential to recognize that the plot provides a visual representation of the data, and comprehensive interpretation should consider additional factors beyond this graphical depiction.



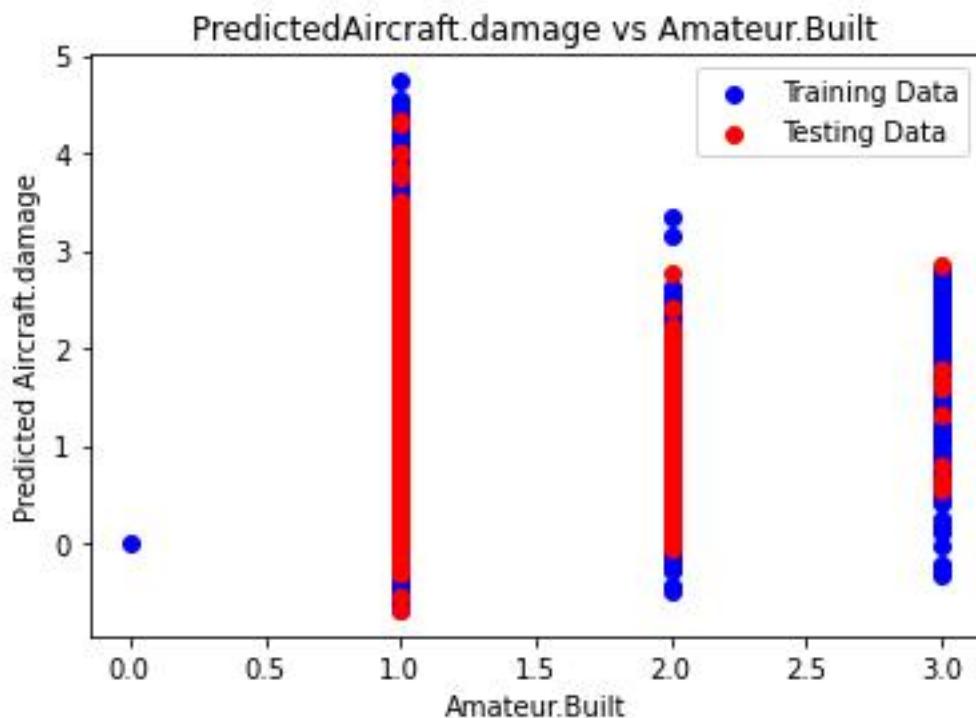
Certainly, the plot illustrates the relationship between predicted aircraft damage and Federal Aviation Regulations (FAR) descriptions. The red line signifies the predicted damage, while the blue line likely denotes the average predicted damage, evident from its smoother trajectory. Although the x-axis label is truncated, it presumably corresponds to descriptors or codes correlating with FAR descriptions. Observations from the plot include higher predicted damage for lower FAR descriptions, indicating a model prediction that aircraft regulated under less stringent FARs may sustain more damage. Additionally, significant variation in predicted damage across FAR descriptions is apparent, as indicated by the dispersion of red dots around the red line. Notably, the training data (red dots) encompass a broader spectrum of FAR descriptions compared to the testing data (blue dots). However, it's crucial to approach this interpretation recognizing that the plot provides a visual representation, and comprehensive analysis should consider additional contextual factors.



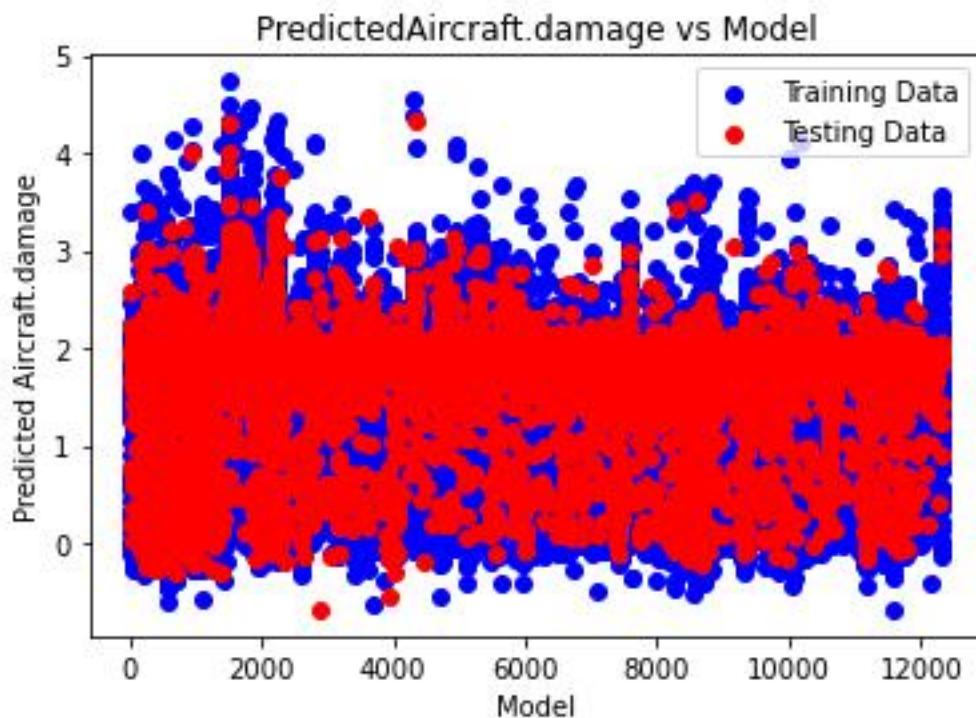
The provided scatter plot illustrates the relationship between predicted aircraft damage and engine type. The x-axis represents different engine types, while the y-axis denotes the predicted aircraft damage. Each data point represents an individual aircraft. Despite lacking detailed information about the dataset and model, several observations can be made. The dispersion of data points suggests a weak correlation between predicted aircraft damage and engine type, as there is no discernible linear trend. Notably, the concentration of points in the lower left portion of the graph implies a prevalence of aircraft predicted to have lower damage with specific engine types. It's essential to interpret this graphical representation cautiously, recognizing its limitations and considering other pertinent factors when assessing model predictions.



The provided scatter plot depicts the relationship between predicted aircraft damage and the number of engines on an aircraft. The x-axis denotes the count of engines, while the y-axis represents the predicted damage. Each data point represents an individual aircraft. Several observations can be drawn from the plot: firstly, there is no discernible linear trend, indicating that the predicted damage does not consistently increase or decrease with the number of engines. Secondly, the spread of data points across the graph suggests a weak correlation between the number of engines and predicted damage. Lastly, a slightly higher concentration of points in the lower left corner implies fewer aircraft are predicted to have damage with fewer engines. However, it's crucial to acknowledge the limitations of this visual representation and consider additional factors that may influence the model's predictions.

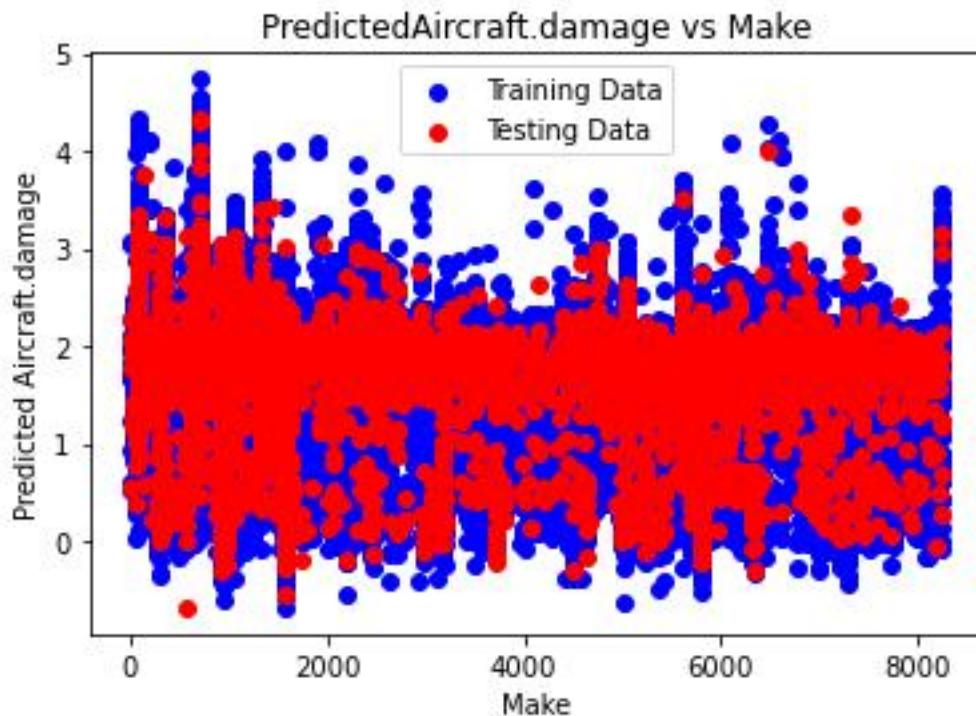


The scatter plot illustrates the relationship between predicted aircraft damage and whether the aircraft was amateur-built. The x-axis denotes the amateur build status, while the y-axis represents the predicted damage. The red line signifies the predicted damage, while the smoother blue line indicates the average predicted damage. Observations from the plot include a spread of data points indicating a weak correlation between predicted damage and amateur build status, with no clear linear trend. Additionally, there appears to be a higher concentration of points in the lower left portion of the graph, suggesting fewer aircraft predicted to have damage were not amateur-built. However, it's essential to acknowledge that this graphical representation has limitations, and other factors may influence the model's predictions.



The plot depicts the relationship between predicted aircraft damage and model training data. The red line signifies the predicted damage, while the blue line represents the training data. The x-axis denotes the "Model," likely indicating different models used for prediction, while the y-axis represents "Predicted Aircraft.damage." Each data point represents an individual aircraft.

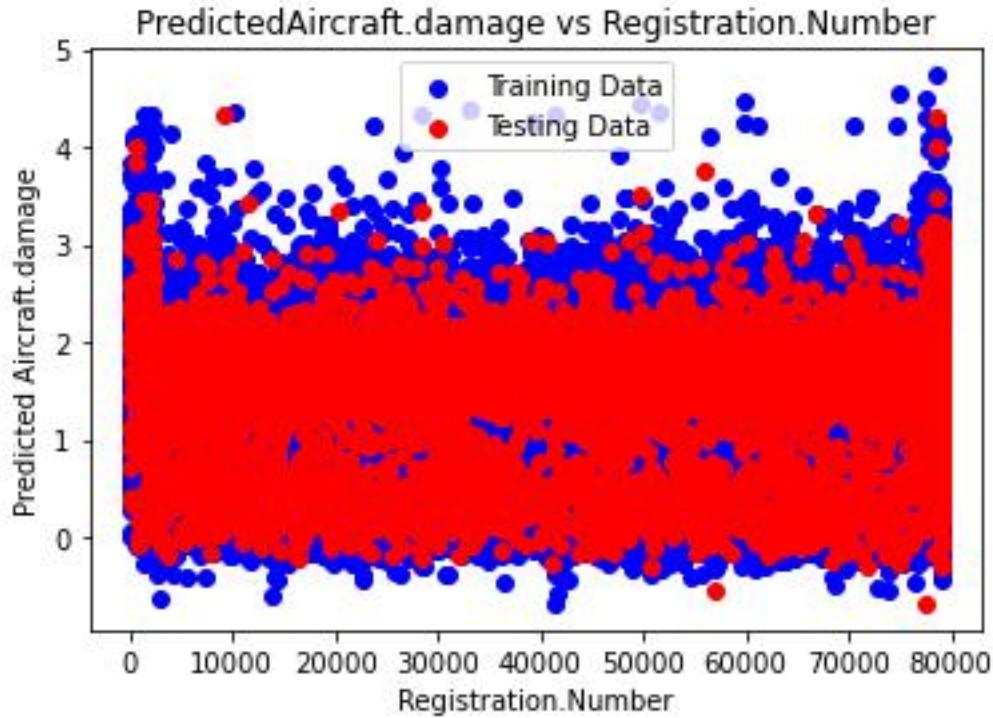
Given that the blue line represents the training data, it likely indicates a perfect correlation, signifying the model's accurate prediction of damage for the training dataset. However, the spread of the red points around the blue line suggests that the model's generalization to new, unseen aircraft data is limited. There appears to be more variation in the actual damage of these aircraft than predicted by the model.



The plot illustrates the relationship between predicted aircraft damage and the make of the aircraft. The x-axis is labeled "Make," representing different aircraft manufacturers, while the y-axis is labeled "PredictedAircraft.damage." Each data point represents an individual aircraft.

Without detailed information about the dataset and the predictive model employed, definitive conclusions are challenging. However, several general observations can be made. Firstly, there is no discernible linear trend in the data, implying that changes in aircraft make do not consistently correlate with predicted damage levels.

Furthermore, the spread of data points suggests a weak correlation between predicted aircraft damage and aircraft make. Additionally, a higher concentration of points in the lower-left portion of the graph indicates that certain manufacturers may produce aircraft predicted to have lower damage levels.

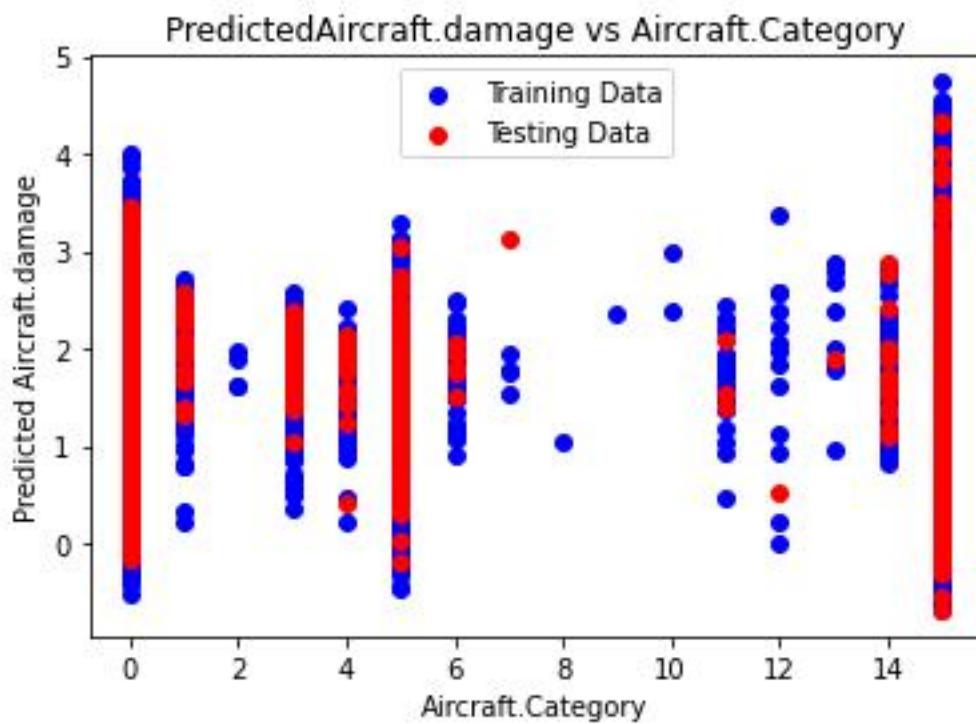


Certainly, the plot you provided depicts a scatter plot comparing predicted aircraft damage against registration numbers. On the x-axis, "Registration.Number" denotes different registration numbers assigned to individual aircraft, while the y-axis, "PredictedAircraft.damage," represents the predicted damage levels.

Upon observation, several key insights emerge. Firstly, the spread of data points across the graph suggests a weak correlation between registration numbers and predicted aircraft damage. Additionally, the absence of a clear linear relationship implies that changes in registration numbers do not consistently correlate with changes in predicted damage levels.

Furthermore, a higher concentration of points in the lower left corner of the graph indicates that fewer aircraft are predicted to have damage with lower registration numbers. However, it is essential to acknowledge that this observation is based solely on visual analysis and may not capture all influencing factors accurately.

Ultimately, this graphical representation serves as a valuable tool for understanding the relationship between registration numbers and predicted aircraft damage. Nevertheless, comprehensive consideration of other factors is imperative to fully interpret the model's predictions and ensure their accuracy and reliability.

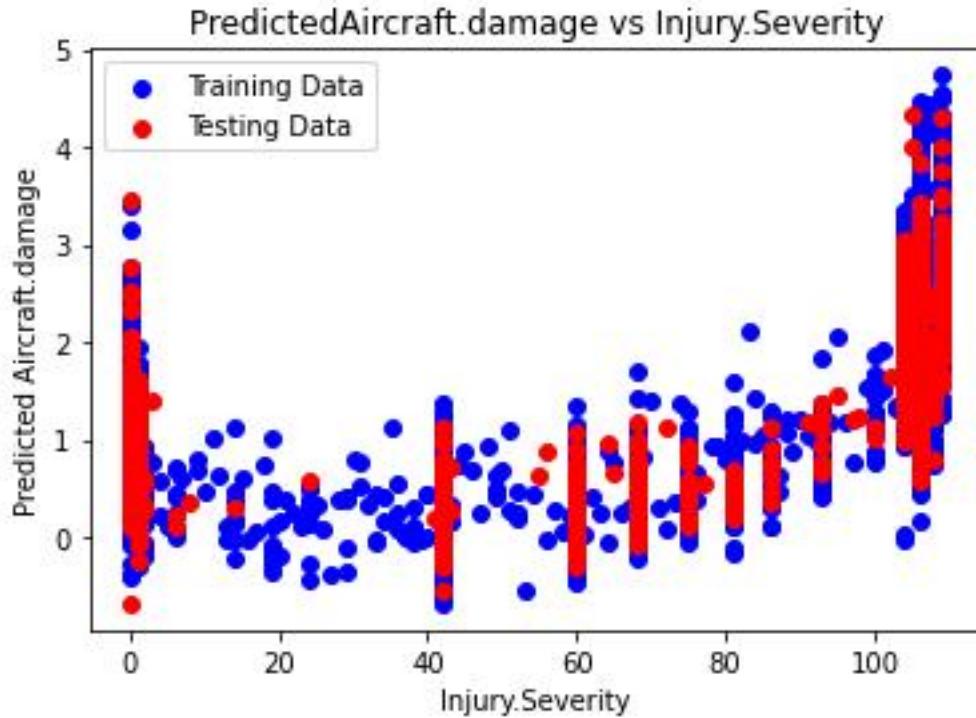


Certainly, the plot illustrates a scatter plot comparing predicted aircraft damage with aircraft categories. The x-axis denotes "Aircraft.Category," representing different categories of aircraft, while the y-axis represents "PredictedAircraft.damage."

Upon examination, several observations can be made. Firstly, there exists a spread of data points across the entire graph, implying a weak correlation between aircraft categories and predicted aircraft damage. Furthermore, the absence of a clear linear trend suggests that changes in aircraft categories do not consistently correlate with changes in predicted damage levels.

However, discerning specific patterns in the concentration of data points proves challenging due to limited visibility of the labels for aircraft categories on the x-axis. Without this crucial information, making precise interpretations about the relationship between aircraft categories and predicted damage becomes difficult.

It is important to note that this graphical depiction provides valuable insights into the relationship between aircraft categories and predicted damage. Nonetheless, comprehensive consideration of other influential factors is necessary to fully comprehend and validate the model's predictions.

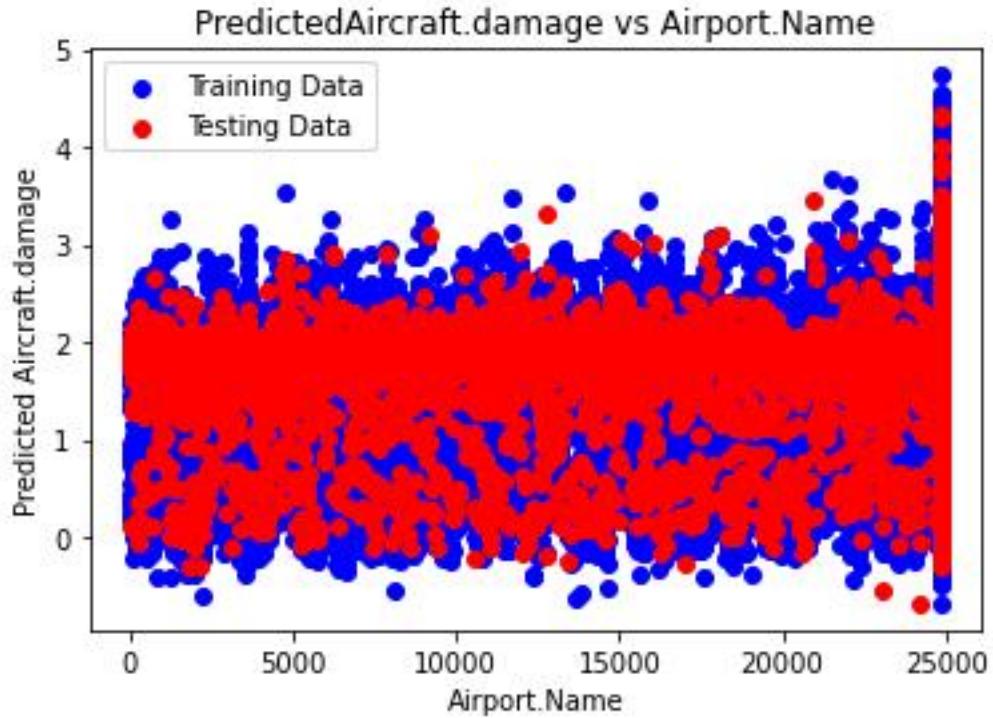


The plot depicts a scatter plot comparing predicted aircraft damage with injury severity. The x-axis is labeled "Injury.Severity," representing different levels of injury severity resulting from aircraft incidents, while the y-axis represents "PredictedAircraft.damage." Each data point corresponds to an individual aircraft incident.

Upon analysis, several observations emerge. Firstly, there exists a spread of data points across the entire graph, indicating a weak correlation between injury severity and predicted aircraft damage. Moreover, the absence of a clear linear trend implies that increases in injury severity do not consistently correspond to increases in predicted damage levels.

However, discerning specific patterns in the concentration of data points proves challenging, suggesting the absence of significant clustering based on injury severity.

It is crucial to note that while this graphical depiction offers insights into the relationship between injury severity and predicted damage, comprehensive consideration of other influential factors is necessary to fully comprehend and validate the model's predictions. Additionally, the lack of a labeled scale on the x-axis limits the interpretability of the severity of injuries, warranting caution in making specific interpretations.

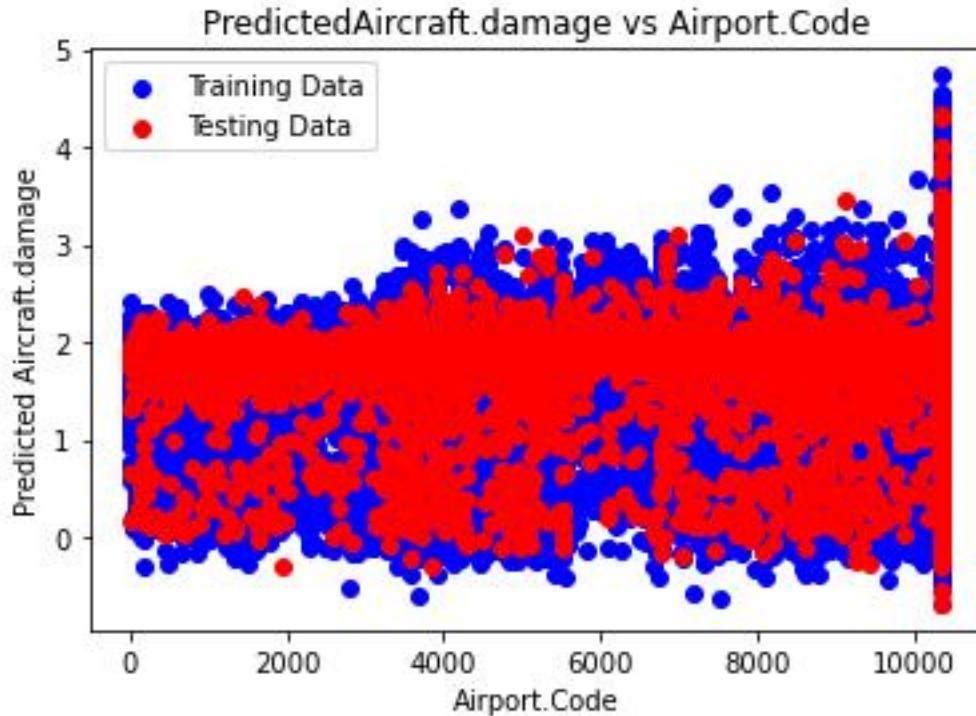


The plot illustrates a scatter plot comparing predicted aircraft damage with airport names. The x-axis, labeled "Airport.Name," delineates different airport locations, while the y-axis represents "PredictedAircraft.damage." Each data point corresponds to an individual aircraft incident.

Upon examination, several observations can be made. Firstly, there exists a spread of data points across the entire graph, indicating a weak correlation between airport names and predicted aircraft damage. Moreover, the absence of a clear linear trend implies that variations in airport names do not consistently correlate with changes in predicted damage levels.

However, discerning specific patterns in the concentration of data points proves challenging, suggesting the absence of significant clustering based on airport names.

It is crucial to note that while this graphical representation offers insights into the relationship between airport names and predicted damage, comprehensive consideration of other influential factors is necessary to fully comprehend and validate the model's predictions. Additionally, the incomplete display of airport names on the x-axis limits the interpretability of specific airport locations, warranting caution in making precise interpretations.

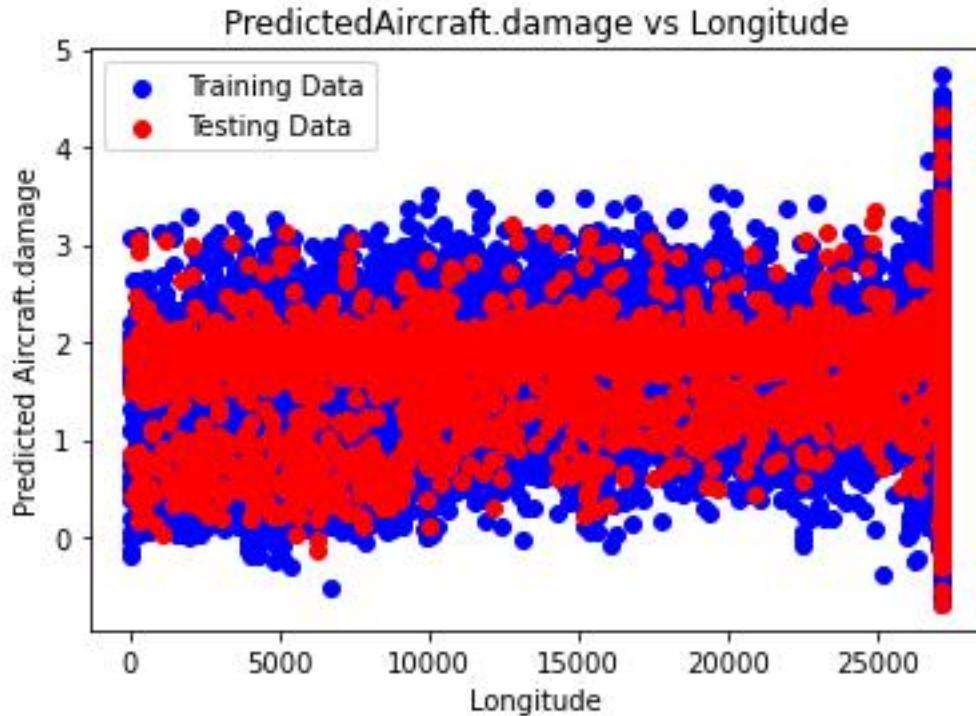


The plot depicts a scatter plot comparing predicted aircraft damage with airport codes. The x-axis, labeled "Airport.Code," represents different airport codes, while the y-axis denotes "PredictedAircraft.damage." Each data point signifies an individual aircraft incident.

Upon examination, several observations emerge. Firstly, there is a dispersion of data points across the entire graph, indicating a weak correlation between airport codes and predicted aircraft damage. Moreover, the absence of a clear linear trend suggests that variations in airport codes do not consistently correlate with changes in predicted damage levels.

However, discerning specific patterns in the concentration of data points proves challenging, indicating the absence of significant clustering based on airport codes.

It is essential to note that while this graphical representation provides insights into the relationship between airport codes and predicted damage, comprehensive consideration of other influential factors is necessary to fully comprehend and validate the model's predictions. Additionally, the abbreviated airport codes on the x-axis constrain the interpretability of specific airport locations, warranting caution in making precise interpretations.

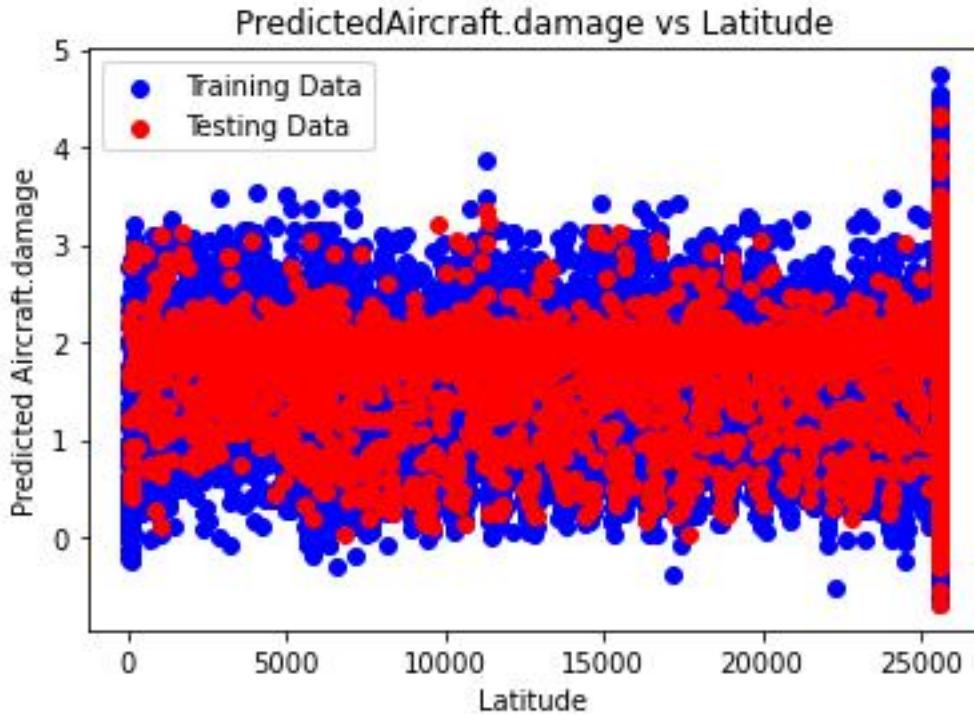


The plot illustrates a scatter plot juxtaposing predicted aircraft damage against longitude. The x-axis, labeled "Longitude," represents different longitudinal coordinates, while the y-axis denotes "PredictedAircraft.damage." Each data point signifies an individual aircraft incident.

Upon analysis, several observations emerge. Firstly, there is a dispersion of data points across the entire range of longitude values, indicating a weak correlation between longitude and predicted aircraft damage. Furthermore, the absence of a clear linear trend suggests that changes in longitude do not consistently correlate with changes in predicted damage levels.

However, discerning specific patterns in the concentration of data points across the entire range of longitudes proves challenging, indicating the absence of significant clustering based on longitudinal coordinates.

It is imperative to note that while this graphical representation provides insights into the relationship between longitude and predicted damage, comprehensive consideration of other influential factors is necessary to fully comprehend and validate the model's predictions. Additionally, the absence of the longitude range on the x-axis limits precise interpretations regarding geographic location.

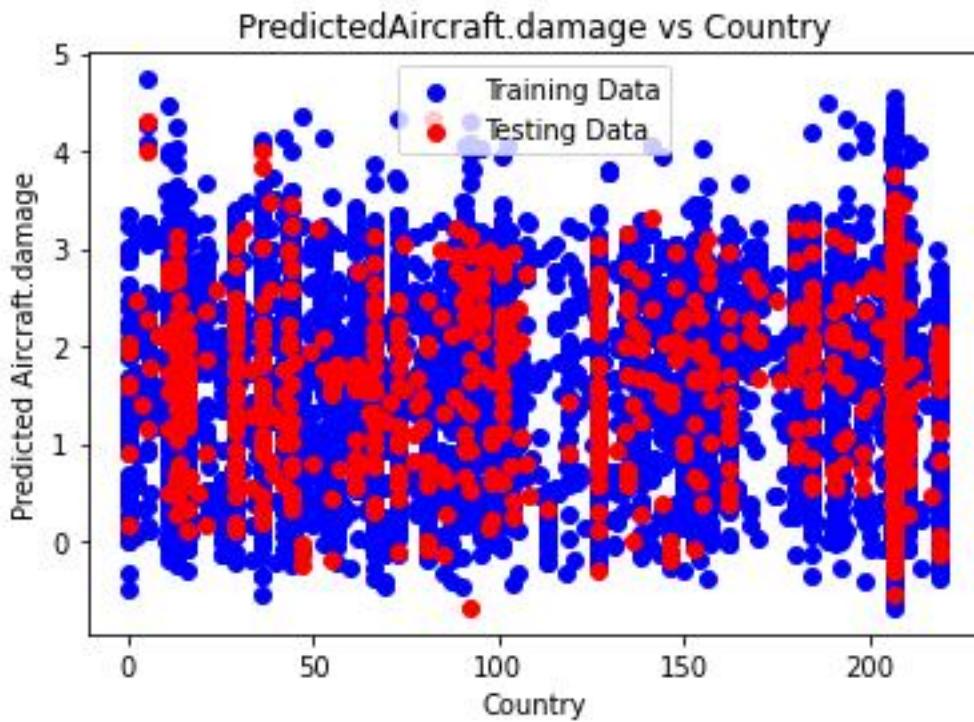


The provided plot presents a scatter plot illustrating the relationship between predicted aircraft damage and latitude. The x-axis, labeled "Latitude," delineates various latitudinal coordinates, while the y-axis denotes "PredictedAircraft.damage." Each data point corresponds to an individual aircraft incident.

Upon scrutiny, several observations emerge. Primarily, a dispersion of data points is evident across the entire latitude spectrum, implying a weak correlation between latitude and predicted aircraft damage. Additionally, the absence of a discernible linear trend suggests that variations in latitude do not consistently correlate with alterations in predicted damage levels.

However, discerning specific concentration patterns within the latitude range proves challenging, indicating the absence of notable clustering based on latitudinal coordinates.

It is imperative to note that while this visual representation offers insights into the latitude-predicted damage relationship, comprehensive consideration of other influential factors is necessary to fully comprehend and validate the model's predictions. Additionally, the inability to differentiate between training and testing data based solely on the data points themselves complicates the interpretation of the plot.

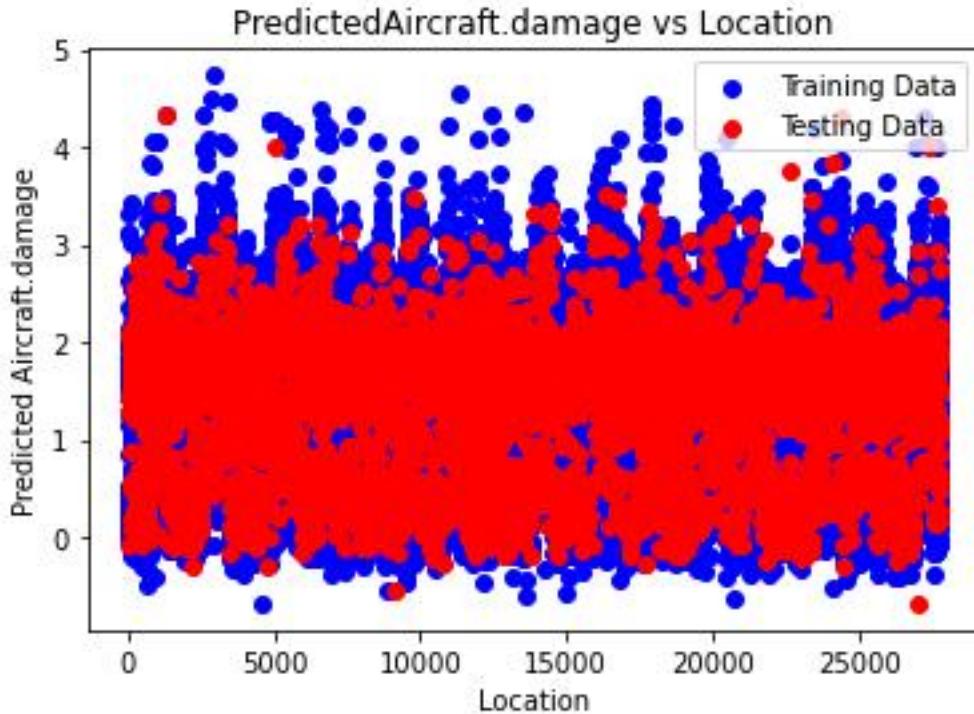


The plot provided depicts a scatter plot contrasting predicted aircraft damage against country. The x-axis is labeled "Country," while the y-axis is denoted as "PredictedAircraft.damage." Each data point symbolizes an individual aircraft incident.

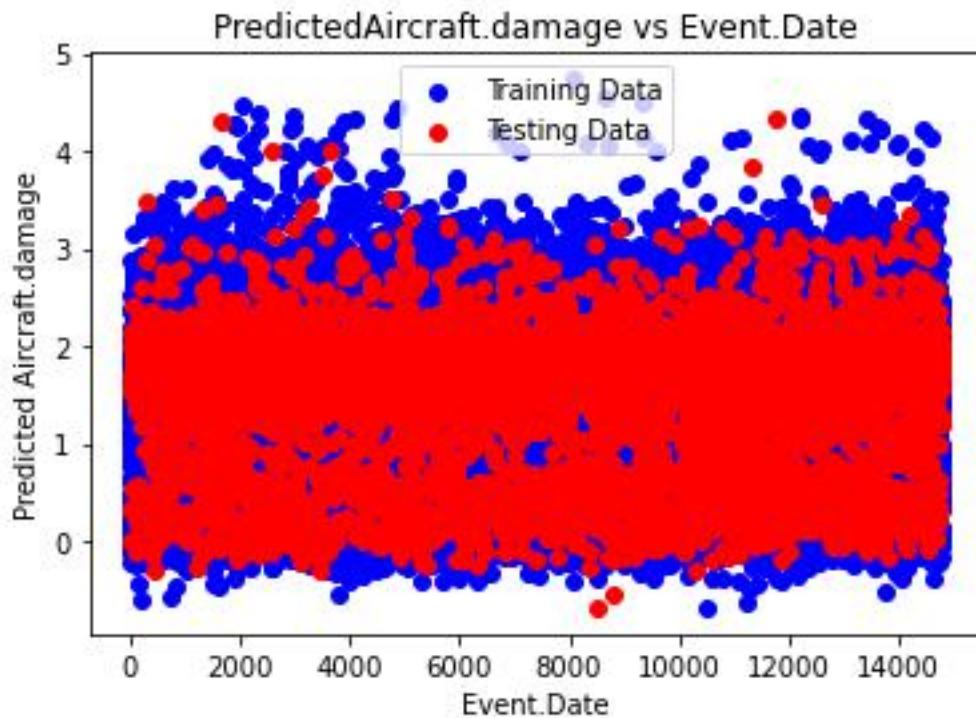
Upon examination, several observations can be made:

- A dispersion of data points is observable across a substantial portion of the y-axis, suggesting a tenuous correlation between country and predicted aircraft damage. Although the spread encompasses a considerable portion of the y-axis, there appears to be a higher concentration of points towards the bottom, indicating that most countries exhibit a low predicted average damage according to the model.
- Notably, the data points do not coalesce around a linear trendline, implying the absence of a straightforward linear relationship. Consequently, as the country varies, the predicted damage does not consistently ascend or descend.
- Furthermore, a greater density of points is discernible in the lower left quadrant of the graph. This concentration implies that certain countries may harbor fewer aircraft predicted to incur damage, according to the model.

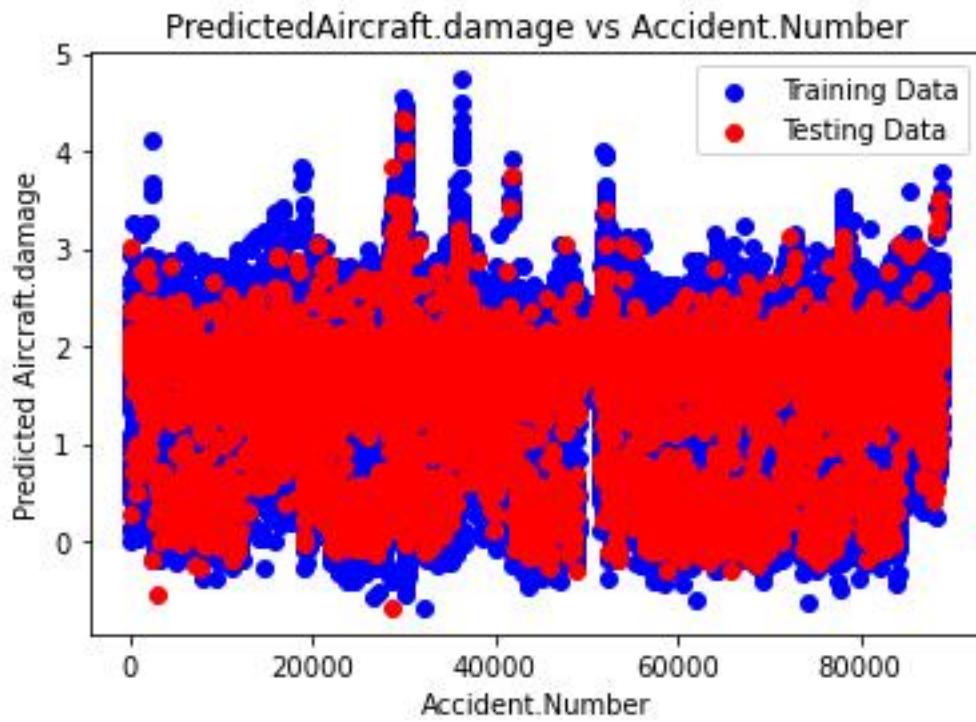
It is imperative to acknowledge that while this visual representation offers insights into the country-predicted damage relationship, comprehensive consideration of additional influential factors is necessary to thoroughly grasp and validate the model's predictions.



The scatter plot under examination juxtaposes predicted aircraft damage against location, with the x-axis denoting "Location" and the y-axis representing "Predicted Aircraft.damage." Each data point on the plot corresponds to an individual aircraft incident. Upon scrutiny, it becomes apparent that a weak correlation exists between location and predicted damage, as evidenced by the dispersed distribution of data points along the location axis. Moreover, the absence of a discernible linear trendline suggests the lack of a clear linear relationship between location and predicted damage. Consequently, fluctuations in location do not consistently correlate with changes in predicted damage levels. Additionally, the absence of distinct patterns in the concentration of data points across locations further underscores the complexity of this relationship. While this graphical representation offers preliminary insights, a more comprehensive analysis incorporating additional influential factors is imperative to validate the model's predictions rigorously. Furthermore, the lack of specific location labels on the x-axis impedes precise interpretations regarding the relationship between location and predicted damage. Hence, further investigation, potentially involving additional variables or advanced modeling techniques, may be warranted to elucidate the nuanced factors influencing aircraft damage prediction accurately.

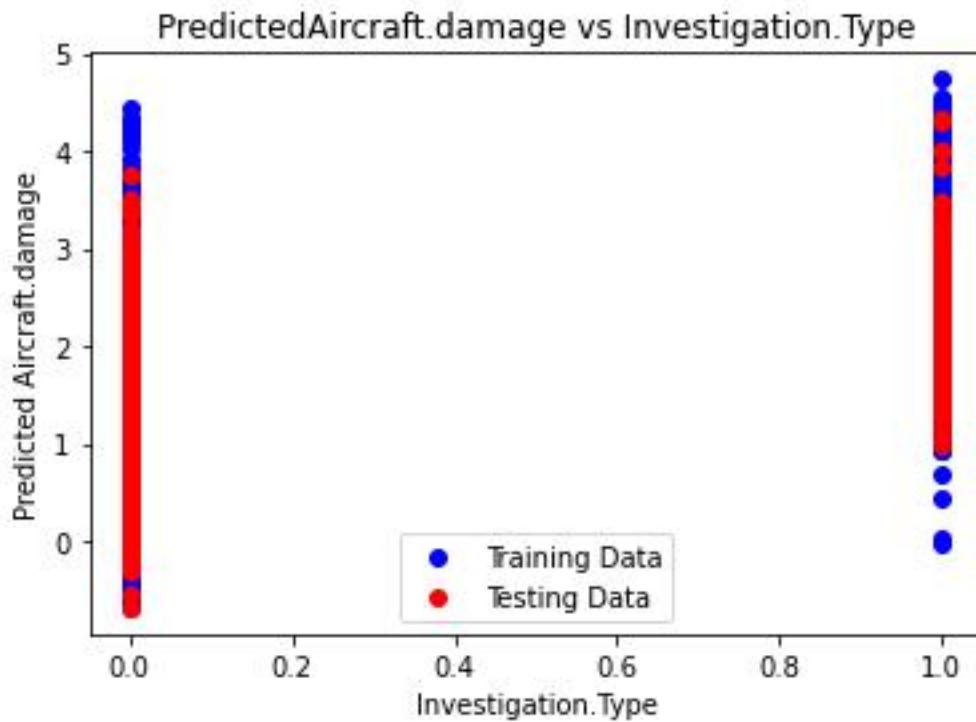


The scatter plot depicts the predicted aircraft damage against the event date for a dataset of aircraft incidents, showing no clear linear trend but a scattered distribution of data points across the graph. While there appears to be a concentration of incidents with lower predicted damage occurring on earlier dates, the absence of a discernible trend suggests a weak correlation between event date and predicted damage severity. However, without knowledge of the scale of event dates, drawing definitive conclusions about temporal trends is challenging. Additionally, it's crucial to consider other influencing factors beyond the scope of the plot that may affect the model's predictions, such as aircraft type and operational conditions. Further analysis incorporating additional variables and statistical methods may be necessary for a comprehensive understanding of the relationship between event date and predicted aircraft damage.

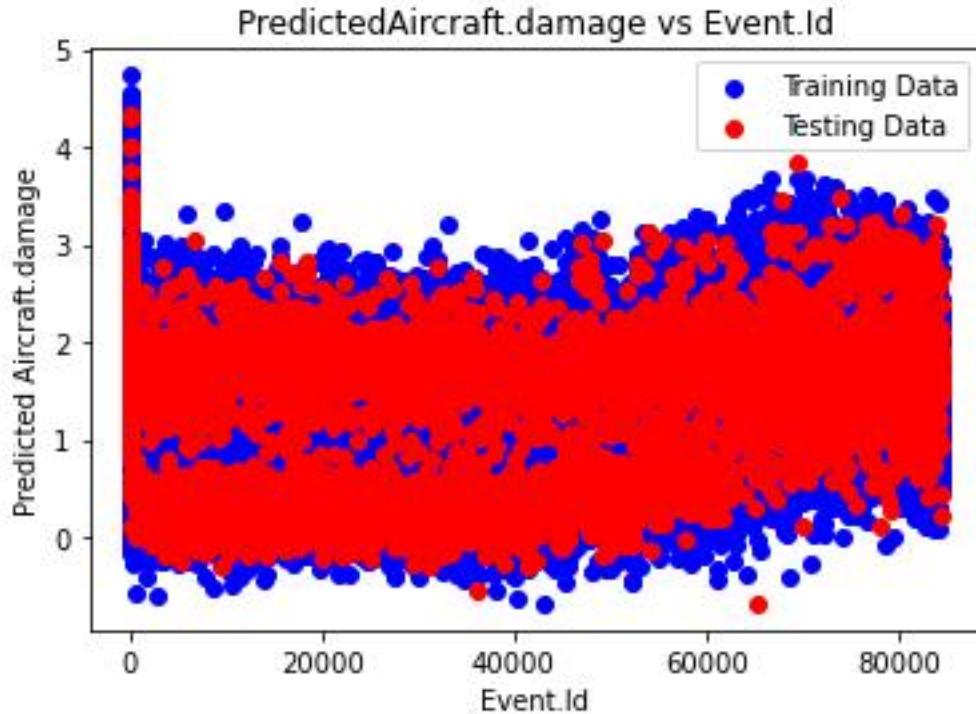


The provided scatter plot illustrates the relationship between predicted aircraft damage and the number of accidents, with the red line representing the average predicted aircraft damage and the blue points denoting actual aircraft damage from testing data. The x-axis depicts the number of accidents, while the y-axis indicates the predicted aircraft damage. Each blue point on the plot represents an individual accident, with its height on the y-axis representing the model's predicted damage for that specific incident.

The dispersion of blue points around the red line suggests variability in the damage outcomes for accidents with the same number of aircraft involved. This variability could stem from various factors such as aircraft type, prevailing weather conditions, and the underlying causes of the accidents. Despite this dispersion, an overall positive correlation emerges between the number of accidents and the predicted aircraft damage, indicating that an increase in the number of accidents tends to coincide with higher predicted damage levels. However, the spread of data points around the red line indicates that this correlation is not absolute, implying that factors beyond just the number of accidents contribute to the variability in predicted damage outcomes. Thus, while the plot underscores a general trend of increasing predicted damage with a higher number of accidents, it also highlights the complexity of factors influencing aircraft damage in accident scenarios.



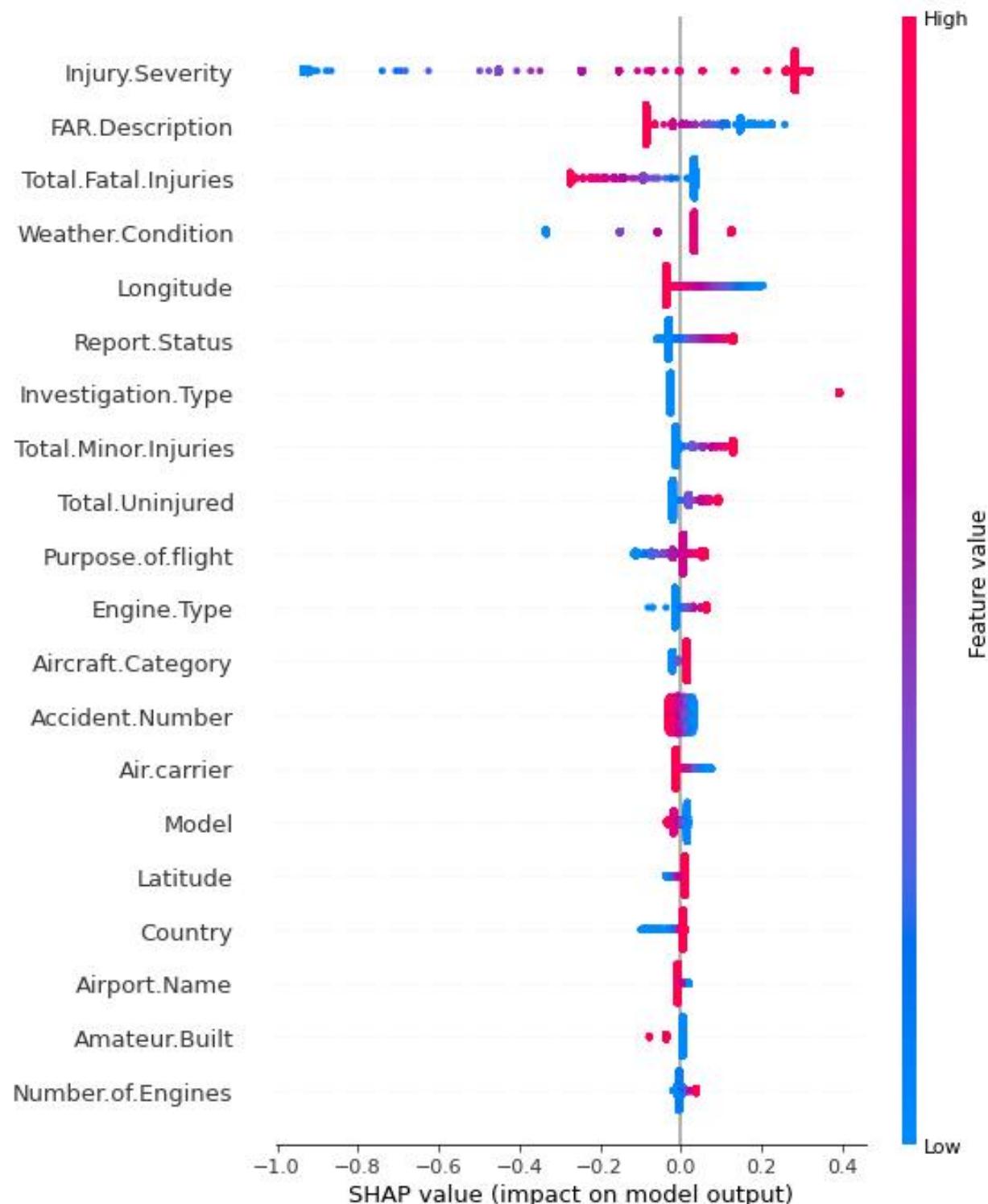
The plot provided illustrates the relationship between predicted aircraft damage and investigation type, though a potential labeling error on the axis is noted, as indicated by the legend specifying "Predicted Aircraft.damage" for the red line and "Investigation.Type" for the blue line. The x-axis denotes investigation type, potentially indicating distinct categories for training and testing data. However, the absence of labeled scales on the x-axis complicates interpretation regarding the nature of these investigation types. It is conceivable that the model was trained on one investigation type and tested on another, or vice versa. Without explicit scale labeling, discerning the precise meaning of investigation types remains challenging. Consequently, drawing definitive conclusions about the relationship between predicted aircraft damage and investigation type is hindered by the lack of contextual information. Further clarification regarding the investigation categories is essential to elucidate any discernible patterns or trends in the data.



The provided plot illustrates the relationship between predicted aircraft damage and event ID, with the red line representing the average predicted damage and the blue points indicating actual damage from testing data. On the x-axis, event IDs are displayed, while the y-axis denotes predicted aircraft damage. Each blue point represents a distinct event, with its position on the y-axis reflecting the model's predicted damage for that particular event.

The dispersion of blue points around the red line signifies variability in damage outcomes for events sharing the same ID. This variability may stem from diverse factors such as aircraft type, prevailing weather conditions, and the specific circumstances surrounding each event. Despite the scatter, no clear correlation emerges between event ID and predicted aircraft damage, as evidenced by the lack of a discernible pattern in the distribution of data points around the red line. This suggests that event ID alone may not serve as an effective predictor of aircraft damage. The absence of a consistent relationship underscores the complexity involved in accurately predicting damage based solely on event ID, indicating the potential necessity for additional predictive variables to enhance model performance.

SHAP-INTERPRETATION:



Second model:

1. Event ID: A unique identifier assigned to each aviation event.
2. Investigation Type: Specifies the type of investigation conducted for the event (e.g., Accident, Incident).
3. Accident Number: An identification number assigned to the accident.
4. Event Date: The date when the aviation event occurred.
5. Location: The geographical location where the event took place.
6. Country: The country where the event occurred.
7. Latitude: The latitude coordinate of the event location.
8. Longitude: The longitude coordinate of the event location.
9. Airport Code: The code assigned to the airport nearest to the event location.
10. Airport Name: The name of the airport nearest to the event location.
11. Injury Severity: Describes the severity of injuries resulting from the event (e.g., Fatal, Non-Fatal).
12. Aircraft Damage: Indicates the extent of damage to the aircraft (e.g., Destroyed, Substantial).
13. Aircraft Category: Specifies the category of the aircraft involved (e.g., Airplane, Helicopter).
14. Registration Number: The registration number assigned to the aircraft.
15. Make: The manufacturer of the aircraft.
16. Model: The model of the aircraft.
17. Amateur Built: Indicates whether the aircraft was amateur-built (Yes/No).
18. Number of Engines: Specifies the number of engines installed on the aircraft.
19. Engine Type: Describes the type of engine installed on the aircraft.
20. FAR Description: Provides a description of the Federal Aviation Regulation (FAR) applicable to the event.

21. Schedule: Indicates if the flight was scheduled (e.g., SCHD for Scheduled, NSCH for Non-Scheduled).
22. Purpose of Flight: Describes the purpose of the flight (e.g., Personal, Business).
23. Air Carrier: Specifies the air carrier involved in the event.
24. Total Fatal Injuries: The total number of fatal injuries resulting from the event.
25. Total Serious Injuries: The total number of serious injuries resulting from the event.
26. Total Minor Injuries: The total number of minor injuries resulting from the event.
27. Total Uninjured: The total number of individuals who were uninjured in the event.
28. Weather Condition: Describes the weather conditions at the time of the event.
29. Broad Phase of Flight: Specifies the broad phase of flight during which the event occurred (e.g., Takeoff, Cruise).
30. Report Status: Indicates the status of the report related to the event.
31. Publication Date: The date when the report related to the event was published.

EQUATION:

ENCODING ONLY CATEGORICAL VARIABLE

Accuracy: 0.8279676735559088

Coefficients: [2.246720079937795e-05, -1.063789584898673e-06, 4.465829340975149e-06, 3.572546963699715e-05, 5.052508264143696e-06, -2.371761876608092e-06, -0.0002973479431087051, -0.00028921617287846097, -0.000270405245748486, -0.0002086150585224657, 9.643524802348297e-06, -2.4366104698733695e-07, 1.985827844571316e-06, -2.292276758198357e-05, 6.0758333153316515e-05, -1.2760178426237535e-07, -2.084846562971678e-06, -2.616512862826371e-06, 1.483863068022023e-05, -4.2395810443064944e-07, -1.3910017022031742e-05, -5.915237312793384e-06, -8.773918093930648e-06, -7.482020128818091e-07, -1.4744483779565533e-06, -3.374239067666594e-05, -3.0015681007712964e-06, -5.671977810518049e-06, -0.0008137979687057241, 0.0]

Intercept: -5.3743280821452986e-08

Logistic Equation:

$P(\text{Aircraft Damage}=1) = 1 / (1 + e^{(-5.3743280821452986e-08 + 0.000022467 * \text{Event Id} + -0.000001064 * \text{Investigation Type} + 0.000004466 * \text{Accident Number} + 0.000035725 * \text{Event Date} + 0.000005053 * \text{Location} + -0.000002372 * \text{Country} + -0.000297348 * \text{Latitude} + -0.000289216 * \text{Longitude} + -0.000270405 * \text{Airport Code} + -0.000208615 * \text{Airport Name} + 0.000009644 * \text{Injury Severity} + -0.000000244 * \text{Aircraft Category} + 0.000001986 * \text{Registration Number} + -0.000022923 * \text{Make} + 0.000060758 * \text{Model} + -0.0000000128 * \text{Amateur Built} + -0.000002085 * \text{Number of Engines} + -0.000002617 * \text{Engine Type} + 0.000014839 * \text{FAR Description} + -0.000000424 * \text{Schedule} + -0.000013910 * \text{Purpose of Flight} + -0.000005915 * \text{Air Carrier} + -0.000008774 * \text{Total Fatal Injuries} + -0.000000748 * \text{Total Serious Injuries} + -0.000001474 * \text{Total Minor Injuries} + -0.000033742 * \text{Total Uninjured} + -0.000003002 * \text{Weather Condition} + -0.000005672 * \text{Broad Phase of Flight} + -0.000813798 * \text{Report Publication Date} + 0.000000000 * \text{Unnamed: 30}))}$

Accuracy: 0.8261128775834659

Coefficients: [2.2737198631012384e-05, -1.2215655164474769e-06, 1.7312634797699286e-06, 4.59039788556747e-05, 6.384056600132479e-06, -2.145366578782471e-06, -0.0003490683905963343, -0.0003393996121922005, -0.00030918850299777696, -0.00028788097699429895, 1.171185540771871e-05, -2.8104228491773633e-07, 2.745039341519992e-06, -2.3755449862202954e-06, 7.377033811180471e-05, -1.4242458193989078e-07, -2.3961640444098577e-06, -3.007987384438043e-06, 1.7135230018753686e-05, -4.962643957421452e-07, -1.5954023160732497e-05, -5.959504933777492e-06, -1.0150569200300999e-05, -8.58275310409267e-07, -1.6580705031581774e-06, -3.756183989750323e-05, -3.4541602894294154e-06, -6.500894600088186e-06, -0.0009293262281895406, 0.0]

Intercept: -5.8375171250785243e-08

Logistic Equation:

$P(\text{Aircraft Damage}=1) = 1 / (1 + e^{(-5.8375171250785243e-08 + 0.000022737 * \text{Event Id} + -0.000001222 * \text{Investigation Type} + 0.000001731 * \text{Accident Number} + 0.000045904 * \text{Event Date} + 0.000006384 * \text{Location} + -0.000002145 * \text{Country} + -0.000349068 * \text{Latitude} + -0.000339400 * \text{Longitude} + -0.000309189 * \text{Airport Code} + -0.000287881 * \text{Airport Name} + 0.000011712 * \text{Injury Severity} + -0.000000281 * \text{Aircraft Category} + 0.000002745 * \text{Registration Number} + -0.000002376 * \text{Make} + 0.000073770 * \text{Model} + -0.0000000142 * \text{Amateur Built} + -0.000002396 * \text{Number of Engines} + -0.000003008 * \text{Engine Type} + 0.000017135 * \text{FAR Description} + -0.000000496 * \text{Schedule} + -0.000015954 * \text{Purpose of Flight} + -0.000005960 * \text{Air Carrier} + -0.000010151 * \text{Total Fatal Injuries} + -0.000000858 * \text{Total Serious Injuries} + -0.000001658 * \text{Total Minor Injuries} + -0.000037562 * \text{Total Uninjured} + -0.000003454 * \text{Weather Condition} + -0.000006501 * \text{Broad Phase of Flight} + -0.000929326 * \text{Report Publication Date} + 0.000000000 * \text{Unnamed: 30}))}$

LOGISTIC EQUATION: $1/(1+e^{-z})$

POLYNOMIAL-EQUATION:

coefficient [4.45985401e-07 3.32972238e+00 -1.34876645e-06 -2.87112315e-06
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intercept -0.32619251383242265

Equation: Aircraft Damage= -0.326192514 + 3.329722382 * Investigation Type + -0.000001349 * Accident Number + -0.000002871 * Event Date + -0.000000724 * Location + 0.003128158 * Country + -0.000019461 * Latitude + 0.000041810 * Longitude + 0.000047533 * Airport Code + 0.000022742 * Airport Name + 0.001337933 * Injury Severity + -0.374250653 * Aircraft Category + 0.000001263 * Registration Number + 0.000016300 * Make + -0.000017793 * Model + 0.158717141 * Amateur Built + -0.223315917 * Number of Engines + 0.012616354 * Engine Type + 0.004146223 * FAR Description + -0.062799473 * Schedule + 0.020304017 * Purpose of Flight + -0.000051620 * Air Carrier + 0.022165656 * Total Fatal Injuries + -0.021058618 * Total Serious Injuries + 0.002134909 * Total Minor Injuries + 0.005167853 * Total Uninjured + -0.012683315 * Weather Condition + -0.005499892 * Broad Phase of Flight + -0.000106201 * Report Publication Date + 0.000000573 * Unnamed: 30 + -0.000000000 * Event Id^2 + -0.000002728 * Event Id^1*Investigation Type^1 + -0.000000000 * Event Id^1*Accident Number^1 + -0.000000000 * Event Id^1*Event Date^1 + -0.000000000 * Event Id^1*Location^1 + -0.000000003 * Event Id^1*Country^1 + 0.000000001 * Event Id^1*Latitude^1 + 0.000000000 * Event Id^1*Longitude^1 + -0.000000000 * Event Id^1*Airport Code^1 + 0.000000000 * Event Id^1*Airport Name^1 + -0.000000002 * Event Id^1*Injury Severity^1 + 0.000000248 * Event Id^1*Aircraft Category^1 + 0.000000000 * Event Id^1*Registration Number^1 + -0.000000000 * Event Id^1*Make^1 + 0.000000000 * Event Id^1*Model^1 + 0.000000088 * Event Id^1*Amateur Built^1 + 0.000000513 * Event Id^1*Number of Engines^1 + 0.000000259 * Event Id^1*Engine Type^1 + 0.000000025 * Event Id^1*FAR Description^1 + -0.000000502 * Event Id^1*Schedule^1 + 0.000000101 * Event Id^1*Purpose of Flight^1 + 0.000000003 * Event Id^1*Air Carrier^1 + 0.000000001 * Event Id^1*Total Fatal Injuries^1 + -0.000000076 * Event Id^1*Total Serious Injuries^1 + -0.000000044 * Event Id^1*Total Minor Injuries^1 + -0.000000004 * Event Id^1*Total Uninjured^1 + -0.000000579 * Event Id^1*Weather Condition^1 + 0.000000007 * Event Id^1*Broad Phase of Flight^1 + 0.000000000 * Event Id^1*Report Publication Date^1 + -0.000000031 * Event Id^1*Unnamed: 30^1 + -1.830776825 * Investigation Type^2

+ 0.000000120 * Investigation Type^1*Accident Number^1 + 0.000008075 * Investigation Type^1*Event Date^1 + 0.000004011 * Investigation Type^1*Location^1 + -0.000933141 * Investigation Type^1*Country^1 + -0.000041146 * Investigation Type^1*Latitude^1 + 0.000015239 * Investigation Type^1*Longitude^1 + -0.000017574 * Investigation Type^1*Airport Code^1 + 0.000006930 * Investigation Type^1*Airport Name^1 + 0.008552144 * Investigation Type^1*Injury Severity^1 + 0.124404278 * Investigation Type^1*Aircraft Category^1 + 0.000001127 * Investigation Type^1*Registration Number^1 + 0.000000171 * Investigation Type^1*Make^1 + -0.000004947 * Investigation Type^1*Model^1 + -0.174444932 * Investigation Type^1*Amateur Built^1 + 0.056881139 * Investigation Type^1*Number of Engines^1 + -0.034503839 * Investigation Type^1*Engine Type^1 + 0.009322826 * Investigation Type^1*FAR Description^1 + 0.084926768 * Investigation Type^1*Schedule^1 + -0.001035348 * Investigation Type^1*Purpose of Flight^1 + 0.000073236 * Investigation Type^1*Air Carrier^1 + -0.022937913 * Investigation Type^1*Total Fatal Injuries^1 + -0.020028483 * Investigation Type^1*Total Serious Injuries^1 + 0.005065872 * Investigation Type^1*Total Minor Injuries^1 + -0.000485059 * Investigation Type^1*Total Uninjured^1 + 0.032053363 * Investigation Type^1*Weather Condition^1 + 0.008178227 * Investigation Type^1*Broad Phase of Flight^1 + -0.000060725 * Investigation Type^1*Report Publication Date^1 + -0.000000001 * Investigation Type^1*Unnamed: 30^1 + 0.000000000 * Accident Number^2 + -0.000000000 * Accident Number^1*Event Date^1 + 0.000000000 * Accident Number^1*Location^1 + -0.000000002 * Accident Number^1*Country^1 + 0.000000000 * Accident Number^1*Latitude^1 + -0.000000000 * Accident Number^1*Longitude^1 + 0.000000000 * Accident Number^1*Airport Code^1 + 0.000000000 * Accident Number^1*Airport Name^1 + -0.000000000 * Accident Number^1*Injury Severity^1 + 0.000000141 * Accident Number^1*Aircraft Category^1 + 0.000000000 * Accident Number^1*Registration Number^1 + 0.000000000 * Accident Number^1*Make^1 + 0.000000000 * Accident Number^1*Model^1 + 0.000000616 * Accident Number^1*Amateur Built^1 + -0.000000189 * Accident Number^1*Number of Engines^1 + 0.000000124 * Accident Number^1*Engine Type^1 + 0.000000003 * Accident Number^1*FAR Description^1 + 0.000000109 * Accident Number^1*Schedule^1 + 0.000000005 * Accident Number^1*Purpose of Flight^1 + -0.000000001 * Accident Number^1*Air Carrier^1 + -0.000000001 * Accident Number^1*Total Fatal Injuries^1 + -0.000000081 * Accident Number^1*Total Serious Injuries^1 + -0.000000041 * Accident Number^1*Total Minor Injuries^1 + -0.000000001 * Accident Number^1*Total Uninjured^1 + -0.000000238 * Accident Number^1*Weather Condition^1 + -0.000000025 * Accident Number^1*Broad Phase of Flight^1 + 0.000000000 * Accident Number^1*Report Publication Date^1 + -0.000000001 * Accident Number^1*Unnamed: 30^1 + 0.000000000 * Event Date^2 + -0.000000000 * Event Date^1*Location^1 + 0.000000007 * Event Date^1*Country^1 + -0.000000000 * Event Date^1*Latitude^1 + -0.000000000 * Event Date^1*Longitude^1 + 0.000000000 * Event Date^1*Airport Code^1 + -0.000000000 * Event Date^1*Airport Name^1 + 0.000000006 * Event Date^1*Injury Severity^1 + -0.000001193 * Event Date^1*Aircraft Category^1 + 0.000000000 * Event Date^1*Registration Number^1 + -0.000000000 * Event Date^1*Make^1 + -0.000000000 * Event Date^1*Model^1 + 0.000000822 * Event Date^1*Amateur Built^1 + -0.000000091 * Event Date^1*Number of Engines^1 + -0.000000893 * Event Date^1*Engine Type^1 + 0.000000060 * Event Date^1*FAR Description^1 + 0.000002586 * Event Date^1*Schedule^1 + 0.000000041 * Event Date^1*Purpose of Flight^1 + -0.000000002 * Event Date^1*Air Carrier^1 + 0.000000017 * Event Date^1*Total Fatal Injuries^1 + 0.000000121 * Event Date^1*Total Serious Injuries^1 + 0.000000087 * Event Date^1*Total Minor Injuries^1 + -0.000000012 * Event Date^1*Total Uninjured^1 + -0.000001745

* Event Date^1*Weather Condition^1 + -0.000000271 * Event Date^1*Broad Phase of Flight^1 + 0.000000002 * Event Date^1*Report Publication Date^1 + 0.000000002 * Event Date^1*Unnamed: 30^1 + 0.000000000 * Location^2 + -0.000000013 * Location^1*Country^1 + -0.000000000 * Location^1*Latitude^1 + -0.000000000 * Location^1*Longitude^1 + 0.000000000 * Location^1*Airport Code^1 + -0.000000000 * Location^1*Airport Name^1 + 0.000000010 * Location^1*Injury Severity^1 + -0.000000253 * Location^1*Aircraft Category^1 + -0.000000000 * Location^1*Registration Number^1 + -0.000000000 * Location^1*Make^1 + -0.000000000 * Location^1*Model^1 + 0.000000499 * Location^1*Amateur Built^1 + -0.000000747 * Location^1*Number of Engines^1 + -0.000000273 * Location^1*Engine Type^1 + 0.000000107 * Location^1*FAR Description^1 + -0.000000062 * Location^1*Schedule^1 + 0.000000043 * Location^1*Purpose of Flight^1 + -0.000000002 * Location^1*Air Carrier^1 + -0.000000027 * Location^1>Total Fatal Injuries^1 + 0.000000019 * Location^1>Total Serious Injuries^1 + 0.000000165 * Location^1>Total Minor Injuries^1 + -0.000000010 * Location^1>Total Uninjured^1 + 0.000000037 * Location^1*Weather Condition^1 + 0.000000016 * Location^1*Broad Phase of Flight^1 + 0.000000000 * Location^1*Report Publication Date^1 + -0.000000000 * Location^1*Unnamed: 30^1 + -0.000009794 * Country^2 + 0.000000003 * Country^1*Latitude^1 + 0.000000222 * Country^1*Longitude^1 + 0.000000005 * Country^1*Airport Code^1 + -0.000000114 * Country^1*Airport Name^1 + 0.000001757 * Country^1*Injury Severity^1 + 0.000421707 * Country^1*Aircraft Category^1 + -0.000000007 * Country^1*Registration Number^1 + 0.000000075 * Country^1*Make^1 + 0.000000056 * Country^1*Model^1 + -0.000060306 * Country^1*Amateur Built^1 + 0.000673860 * Country^1*Number of Engines^1 + 0.000035889 * Country^1*Engine Type^1 + -0.000030932 * Country^1*FAR Description^1 + 0.000332652 * Country^1*Schedule^1 + -0.000026206 * Country^1*Purpose of Flight^1 + 0.000000407 * Country^1*Air Carrier^1 + -0.000043024 * Country^1>Total Fatal Injuries^1 + -0.000040076 * Country^1>Total Serious Injuries^1 + -0.000028634 * Country^1>Total Minor Injuries^1 + -0.000012060 * Country^1>Total Uninjured^1 + 0.000329601 * Country^1*Weather Condition^1 + 0.000007007 * Country^1*Broad Phase of Flight^1 + -0.000000070 * Country^1*Report Publication Date^1 + -0.000000000 * Country^1*Unnamed: 30^1 + 0.000000002 * Latitude^2 + -0.000000001 * Latitude^1*Longitude^1 + 0.000000001 * Latitude^1*Airport Code^1 + -0.000000000 * Latitude^1*Airport Name^1 + -0.000000269 * Latitude^1*Injury Severity^1 + -0.000000789 * Latitude^1*Aircraft Category^1 + -0.000000000 * Latitude^1*Registration Number^1 + 0.000000002 * Latitude^1*Make^1 + -0.000000000 * Latitude^1*Model^1 + 0.000007196 * Latitude^1*Amateur Built^1 + 0.000004542 * Latitude^1*Number of Engines^1 + -0.000000698 * Latitude^1*Engine Type^1 + -0.000000149 * Latitude^1*FAR Description^1 + 0.000000411 * Latitude^1*Schedule^1 + -0.000001086 * Latitude^1*Purpose of Flight^1 + 0.000000006 * Latitude^1*Air Carrier^1 + 0.000000229 * Latitude^1>Total Fatal Injuries^1 + 0.000003214 * Latitude^1>Total Serious Injuries^1 + 0.000001289 * Latitude^1>Total Minor Injuries^1 + -0.000000003 * Latitude^1>Total Uninjured^1 + -0.000001769 * Latitude^1*Weather Condition^1 + 0.000001472 * Latitude^1*Broad Phase of Flight^1 + -0.000000004 * Latitude^1*Report Publication Date^1 + -0.000000000 * Latitude^1*Unnamed: 30^1 + -0.000000006 * Longitude^2 + 0.000000000 * Longitude^1*Airport Code^1 + -0.000000000 * Longitude^1*Airport Name^1 + -0.000000214 * Longitude^1*Injury Severity^1 + -0.000001849 * Longitude^1*Aircraft Category^1 + 0.000000000 * Longitude^1*Registration Number^1 + 0.000000001 * Longitude^1*Make^1 + -0.000000001 * Longitude^1*Model^1 + 0.000012735 * Longitude^1*Amateur Built^1 + -0.000003475 * Longitude^1*Number of Engines^1 + 0.000000409 * Longitude^1*Engine Type^1 + 0.000000702 * Longitude^1*FAR Description^1 + -0.000033557 * Longitude^1*Schedule^1 + -

0.000000188 * Longitude^1*Purpose of Flight^1 + 0.000000027 * Longitude^1*Air Carrier^1 + 0.000000010 * Longitude^1*Total Fatal Injuries^1 + 0.000001844 * Longitude^1*Total Serious Injuries^1 + 0.000000321 * Longitude^1*Total Minor Injuries^1 + -0.000000053 * Longitude^1*Total Uninjured^1 + 0.000002111 * Longitude^1*Weather Condition^1 + -0.000001407 * Longitude^1*Broad Phase of Flight^1 + -0.000000004 * Longitude^1*Report Publication Date^1 + -0.000000000 * Longitude^1*Unnamed: 30^1 + -0.000000003 * Airport Code^2 + -0.000000001 * Airport Code^1*Airport Name^1 + 0.000000138 * Airport Code^1*Injury Severity^1 + -0.000004264 * Airport Code^1*Aircraft Category^1 + -0.000000000 * Airport Code^1*Registration Number^1 + -0.000000000 * Airport Code^1*Make^1 + 0.000000000 * Airport Code^1*Model^1 + -0.000008745 * Airport Code^1*Amateur Built^1 + 0.000006530 * Airport Code^1*Number of Engines^1 + 0.000000840 * Airport Code^1*Engine Type^1 + 0.000000168 * Airport Code^1*FAR Description^1 + 0.000000515 * Airport Code^1*Schedule^1 + 0.000000381 * Airport Code^1*Purpose of Flight^1 + 0.000000009 * Airport Code^1*Air Carrier^1 + -0.000000087 * Airport Code^1*Total Fatal Injuries^1 + -0.000002064 * Airport Code^1*Total Serious Injuries^1 + 0.000000560 * Airport Code^1*Total Minor Injuries^1 + 0.000000003 * Airport Code^1*Total Uninjured^1 + -0.000008475 * Airport Code^1*Weather Condition^1 + 0.000000268 * Airport Code^1*Broad Phase of Flight^1 + 0.000000003 * Airport Code^1*Report Publication Date^1 + -0.000000000 * Airport Code^1*Unnamed: 30^1 + -0.000000000 * Airport Name^2 + -0.000000026 * Airport Name^1*Injury Severity^1 + 0.000000486 * Airport Name^1*Aircraft Category^1 + 0.000000000 * Airport Name^1*Registration Number^1 + -0.000000000 * Airport Name^1*Make^1 + -0.000000000 * Airport Name^1*Model^1 + -0.000000112 * Airport Name^1*Amateur Built^1 + -0.000002749 * Airport Name^1*Number of Engines^1 + 0.000000695 * Airport Name^1*Engine Type^1 + -0.000000000 * Airport Name^1*FAR Description^1 + 0.000003184 * Airport Name^1*Schedule^1 + 0.000000083 * Airport Name^1*Purpose of Flight^1 + 0.000000000 * Airport Name^1*Air Carrier^1 + -0.000000031 * Airport Name^1*Total Fatal Injuries^1 + 0.000000859 * Airport Name^1*Total Serious Injuries^1 + -0.000000304 * Airport Name^1*Total Minor Injuries^1 + 0.000000015 * Airport Name^1*Total Uninjured^1 + 0.000000730 * Airport Name^1*Weather Condition^1 + -0.000000147 * Airport Name^1*Broad Phase of Flight^1 + -0.000000001 * Airport Name^1*Report Publication Date^1 + -0.000000000 * Airport Name^1*Unnamed: 30^1 + -0.000000585 * Injury Severity^2 + -0.000245676 * Injury Severity^1*Aircraft Category^1 + -0.000000003 * Injury Severity^1*Registration Number^1 + -0.000000008 * Injury Severity^1*Make^1 + 0.000000023 * Injury Severity^1*Model^1 + -0.000613919 * Injury Severity^1*Amateur Built^1 + 0.000621941 * Injury Severity^1*Number of Engines^1 + -0.000070783 * Injury Severity^1*Engine Type^1 + -0.000034184 * Injury Severity^1*FAR Description^1 + -0.000278456 * Injury Severity^1*Schedule^1 + 0.000009860 * Injury Severity^1*Purpose of Flight^1 + 0.000000072 * Injury Severity^1*Air Carrier^1 + 0.000266920 * Injury Severity^1*Total Fatal Injuries^1 + -0.000363539 * Injury Severity^1*Total Serious Injuries^1 + -0.000152791 * Injury Severity^1*Total Minor Injuries^1 + -0.000009202 * Injury Severity^1*Total Uninjured^1 + -0.000108010 * Injury Severity^1*Weather Condition^1 + 0.000012729 * Injury Severity^1*Broad Phase of Flight^1 + 0.000000184 * Injury Severity^1*Report Publication Date^1 + -0.000000000 * Injury Severity^1*Unnamed: 30^1 + 0.024928011 * Aircraft Category^2 + -0.000000017 * Aircraft Category^1*Registration Number^1 + 0.000005933 * Aircraft Category^1*Make^1 + -0.000001334 * Aircraft Category^1*Model^1 + -0.032655411 * Aircraft Category^1*Amateur Built^1 + -0.008860109 * Aircraft Category^1*Number of Engines^1 + 0.003924110 * Aircraft Category^1*Engine Type^1 + 0.001190599 * Aircraft Category^1*FAR Description^1 + 0.010415995 * Aircraft Category^1*Schedule^1 + -0.001491033 * Aircraft Category^1*Purpose of Flight^1 + -0.000007526 *

Aircraft Category^1*Air Carrier^1 + 0.000478259 * Aircraft Category^1*Total Fatal Injuries^1 + 0.003907833 * Aircraft Category^1*Total Serious Injuries^1 + 0.000888121 * Aircraft Category^1*Total Minor Injuries^1 + 0.000088039 * Aircraft Category^1*Total Uninjured^1 + 0.018053849 * Aircraft Category^1*Weather Condition^1 + 0.000591571 * Aircraft Category^1*Broad Phase of Flight^1 + 0.000001660 * Aircraft Category^1*Report Publication Date^1 + -0.000000000 * Aircraft Category^1*Unnamed: 30^1 + -0.000000000 * Registration Number^2 + -0.000000000 * Registration Number^1*Make^1 + 0.000000000 * Registration Number^1*Model^1 + -0.000000012 * Registration Number^1*Amateur Built^1 + -0.000000331 * Registration Number^1*Number of Engines^1 + -0.000000172 * Registration Number^1*Engine Type^1 + 0.000000010 * Registration Number^1*FAR Description^1 + -0.000000340 * Registration Number^1*Schedule^1 + -0.000000013 * Registration Number^1*Purpose of Flight^1 + 0.000000000 * Registration Number^1*Air Carrier^1 + 0.000000001 * Registration Number^1*Total Fatal Injuries^1 + -0.000000016 * Registration Number^1*Total Serious Injuries^1 + 0.000000012 * Registration Number^1*Total Minor Injuries^1 + 0.000000000 * Registration Number^1*Total Uninjured^1 + 0.000000000 * Registration Number^1*Weather Condition^1 + 0.000000010 * Registration Number^1*Broad Phase of Flight^1 + 0.000000000 * Registration Number^1*Report Publication Date^1 + 0.000000000 * Registration Number^1*Unnamed: 30^1 + -0.000000002 * Make^2 + 0.000000001 * Make^1*Model^1 + -0.000005119 * Make^1*Amateur Built^1 + -0.000011039 * Make^1*Number of Engines^1 + 0.000000270 * Make^1*Engine Type^1 + -0.000000466 * Make^1*FAR Description^1 + 0.000003094 * Make^1*Schedule^1 + 0.000001278 * Make^1*Purpose of Flight^1 + 0.000000002 * Make^1*Air Carrier^1 + -0.000000008 * Make^1*Total Fatal Injuries^1 + -0.000000789 * Make^1*Total Serious Injuries^1 + -0.000000011 * Make^1*Total Minor Injuries^1 + -0.000000038 * Make^1*Total Uninjured^1 + -0.000000723 * Make^1*Weather Condition^1 + 0.000000546 * Make^1*Broad Phase of Flight^1 + 0.000000001 * Make^1*Report Publication Date^1 + -0.000000000 * Make^1*Unnamed: 30^1 + 0.000000001 * Model^2 + -0.000002489 * Model^1*Amateur Built^1 + 0.000001006 * Model^1*Number of Engines^1 + -0.000001680 * Model^1*Engine Type^1 + 0.000000051 * Model^1*FAR Description^1 + 0.000003486 * Model^1*Schedule^1 + 0.000000130 * Model^1*Purpose of Flight^1 + 0.000000006 * Model^1*Air Carrier^1 + 0.000000098 * Model^1*Total Fatal Injuries^1 + -0.000000608 * Model^1*Total Serious Injuries^1 + 0.000000423 * Model^1*Total Minor Injuries^1 + 0.000000009 * Model^1*Total Uninjured^1 + 0.000001117 * Model^1*Weather Condition^1 + -0.000000040 * Model^1*Broad Phase of Flight^1 + 0.000000001 * Model^1*Report Publication Date^1 + 0.000000000 * Model^1*Unnamed: 30^1 + -0.046103309 * Amateur Built^2 + 0.105789466 * Amateur Built^1*Number of Engines^1 + 0.026441010 * Amateur Built^1*Engine Type^1 + 0.000611529 * Amateur Built^1*FAR Description^1 + 0.057248482 * Amateur Built^1*Schedule^1 + 0.000900187 * Amateur Built^1*Purpose of Flight^1 + -0.000123688 * Amateur Built^1*Air Carrier^1 + -0.000804595 * Amateur Built^1*Total Fatal Injuries^1 + 0.001498549 * Amateur Built^1*Total Serious Injuries^1 + 0.004236607 * Amateur Built^1*Total Minor Injuries^1 + 0.000087680 * Amateur Built^1*Total Uninjured^1 + -0.053853844 * Amateur Built^1*Weather Condition^1 + -0.001328358 * Amateur Built^1*Broad Phase of Flight^1 + 0.000019736 * Amateur Built^1*Report Publication Date^1 + -0.000000000 * Amateur Built^1*Unnamed: 30^1 + -0.041868276 * Number of Engines^2 + 0.011219914 * Number of Engines^1*Engine Type^1 + 0.001283949 * Number of Engines^1*FAR Description^1 + -0.054282647 * Number of Engines^1*Schedule^1 + -0.001008904 * Number of Engines^1*Purpose of Flight^1 + 0.000024330 * Number of Engines^1*Air Carrier^1 + 0.001131799 * Number of Engines^1*Total Fatal Injuries^1 + 0.001885074 * Number of Engines^1*Total Serious Injuries^1 + -0.002956265 * Number of

Engines^1*Total Minor Injuries^1 + 0.000537511 * Number of Engines^1*Total Uninjured^1 + -0.017403623 * Number of Engines^1*Weather Condition^1 + 0.009539339 * Number of Engines^1*Broad Phase of Flight^1 + 0.000015580 * Number of Engines^1*Report Publication Date^1 + -0.000000000 * Number of Engines^1*Unnamed: 30^1 + -0.002304279 * Engine Type^2 + -0.000142571 * Engine Type^1*FAR Description^1 + -0.001219639 * Engine Type^1*Schedule^1 + -0.000985095 * Engine Type^1*Purpose of Flight^1 + 0.000000767 * Engine Type^1*Air Carrier^1 + -0.000000163 * Engine Type^1*Total Fatal Injuries^1 + -0.000508364 * Engine Type^1*Total Serious Injuries^1 + 0.000815313 * Engine Type^1*Total Minor Injuries^1 + -0.000042247 * Engine Type^1*Total Uninjured^1 + -0.004620428 * Engine Type^1*Weather Condition^1 + -0.000281254 * Engine Type^1*Broad Phase of Flight^1 + 0.000007489 * Engine Type^1*Report Publication Date^1 + -0.000000000 * Engine Type^1*Unnamed: 30^1 + -0.000015360 * FAR Description^2 + -0.001584904 * FAR Description^1*Schedule^1 + 0.000065073 * FAR Description^1*Purpose of Flight^1 + -0.000000609 * FAR Description^1*Air Carrier^1 + -0.000014241 * FAR Description^1*Total Fatal Injuries^1 + -0.000615714 * FAR Description^1*Total Serious Injuries^1 + -0.000147856 * FAR Description^1*Total Minor Injuries^1 + -0.000000672 * FAR Description^1*Total Uninjured^1 + -0.000922250 * FAR Description^1*Weather Condition^1 + -0.000201633 * FAR Description^1*Broad Phase of Flight^1 + -0.000001361 * FAR Description^1*Report Publication Date^1 + -0.000000000 * FAR Description^1*Unnamed: 30^1 + -0.026186487 * Schedule^2 + 0.001757224 * Schedule^1*Purpose of Flight^1 + -0.000231147 * Schedule^1*Air Carrier^1 + 0.000926593 * Schedule^1*Total Fatal Injuries^1 + -0.008628896 * Schedule^1*Total Serious Injuries^1 + -0.000086196 * Schedule^1*Total Minor Injuries^1 + -0.000362262 * Schedule^1*Total Uninjured^1 + 0.001654900 * Schedule^1*Weather Condition^1 + 0.005260069 * Schedule^1*Broad Phase of Flight^1 + -0.000004436 * Schedule^1*Report Publication Date^1 + 0.000000000 * Schedule^1*Unnamed: 30^1 + -0.000740699 * Purpose of Flight^2 + 0.000004394 * Purpose of Flight^1*Air Carrier^1 + 0.000008879 * Purpose of Flight^1*Total Fatal Injuries^1 + 0.000511509 * Purpose of Flight^1*Total Serious Injuries^1 + -0.000030471 * Purpose of Flight^1*Total Minor Injuries^1 + -0.000000027 * Purpose of Flight^1*Total Uninjured^1 + -0.001775133 * Purpose of Flight^1*Weather Condition^1 + -0.000069383 * Purpose of Flight^1*Broad Phase of Flight^1 + 0.000000784 * Purpose of Flight^1*Report Publication Date^1 + -0.000000000 * Purpose of Flight^1*Unnamed: 30^1 + -0.000000001 * Air Carrier^2 + 0.000001832 * Air Carrier^1*Total Fatal Injuries^1 + 0.000002098 * Air Carrier^1*Total Serious Injuries^1 + 0.000002112 * Air Carrier^1*Total Minor Injuries^1 + 0.000000331 * Air Carrier^1*Total Uninjured^1 + -0.000024413 * Air Carrier^1*Weather Condition^1 + 0.000008318 * Air Carrier^1*Broad Phase of Flight^1 + 0.000000010 * Air Carrier^1*Report Publication Date^1 + 0.000000000 * Air Carrier^1*Unnamed: 30^1 + -0.000389623 * Total Fatal Injuries^2 + 0.000309803 * Total Fatal Injuries^1*Total Serious Injuries^1 + 0.000052127 * Total Fatal Injuries^1*Total Minor Injuries^1 + 0.000047539 * Total Fatal Injuries^1*Total Uninjured^1 + -0.001333449 * Total Fatal Injuries^1*Weather Condition^1 + -0.000038444 * Total Fatal Injuries^1*Broad Phase of Flight^1 + -0.000000118 * Total Fatal Injuries^1*Report Publication Date^1 + 0.000000000 * Total Fatal Injuries^1*Unnamed: 30^1 + 0.002947198 * Total Serious Injuries^2 + 0.000355408 * Total Serious Injuries^1*Total Minor Injuries^1 + -0.000137616 * Total Serious Injuries^1*Total Uninjured^1 + -0.001905731 * Total Serious Injuries^1*Weather Condition^1 + -0.000501121 * Total Serious Injuries^1*Broad Phase of Flight^1 + 0.000002244 * Total Serious Injuries^1*Report Publication Date^1 + 0.000000000 * Total Serious Injuries^1*Unnamed: 30^1 + 0.000049975 * Total Minor Injuries^2 + 0.000005487 * Total Minor Injuries^1*Total Uninjured^1 + 0.001002123 * Total Minor Injuries^1*Weather Condition^1 + -0.000008389 * Total Minor

Injuries^1*Broad Phase of Flight^1 + 0.000000299 * Total Minor Injuries^1*Report Publication Date^1 + 0.000000000 * Total Minor Injuries^1*Unnamed: 30^1 + -0.000003138 * Total Uninjured^2 + -0.000276118 * Total Uninjured^1*Weather Condition^1 + -0.000039918 * Total Uninjured^1*Broad Phase of Flight^1 + -0.000000172 * Total Uninjured^1*Report Publication Date^1 + 0.000000000 * Total Uninjured^1*Unnamed: 30^1 + 0.060263253 * Weather Condition^2 + -0.004134952 * Weather Condition^1*Broad Phase of Flight^1 + 0.000017973 * Weather Condition^1*Report Publication Date^1 + 0.000000000 * Weather Condition^1*Unnamed: 30^1 + -0.000747771 * Broad Phase of Flight^2 + -0.000000728 * Broad Phase of Flight^1*Report Publication Date^1 + 0.000000000 * Broad Phase of Flight^1*Unnamed: 30^1 + -0.000000007 * Report Publication Date^2 + 0.000000000 * Report Publication Date^1*Unnamed: 30^1 + 0.000000000 * Unnamed: 30^2

Accuracy: 0.8372237131582007

DEGREE-3:

Equation: Aircraft Damage= 0.789863272 + -0.000035627 * Investigation Type + -0.000009567 * Accident Number + 0.000056669 * Event Date + 0.000009329 * Location + 0.002429151 * Country + -0.000237161 * Latitude + 0.000009415 * Longitude + -0.000200139 * Airport Code + 0.000087200 * Airport Name + 0.001150682 * Injury Severity + 0.000003778 * Aircraft Category + 0.000003448 * Registration Number + 0.000073239 * Make + -0.000102223 * Model + 0.000000724 * Amateur Built + 0.000046597 * Number of Engines + -0.000029075 * Engine Type + -0.000505158 * FAR Description + -0.000043288 * Schedule + 0.000101781 * Purpose of Flight + -0.000189383 * Air Carrier + -0.000158031 * Total Fatal Injuries + 0.000039795 * Total Serious Injuries + 0.000059375 * Total Minor Injuries + 0.004539484 * Total Uninjured + 0.000057892 * Weather Condition + 0.000017999 * Broad Phase of Flight + 0.000067825 * Report Publication Date + -0.000000480 * Unnamed: 30 + -0.000000000 * Event Id^2 + 0.000000373 * Event Id^1*Investigation Type^1 + 0.000000000 * Event Id^1*Accident Number^1 + 0.000000000 * Event Id^1*Event Date^1 + 0.000000000 * Event Id^1*Location^1 + 0.000000009 * Event Id^1*Country^1 + 0.000000017 * Event Id^1*Latitude^1 + -0.000000003 * Event Id^1*Longitude^1 + -0.000000004 * Event Id^1*Airport Code^1 + 0.000000002 * Event Id^1*Airport Name^1 + 0.000000048 * Event Id^1*Injury Severity^1 + -0.000002946 * Event Id^1*Aircraft Category^1 + 0.000000000 * Event Id^1*Registration Number^1 + -0.000000000 * Event Id^1*Make^1 + -0.000000000 * Event Id^1*Model^1 + -0.000000468 * Event Id^1*Amateur Built^1 + -0.000002838 * Event Id^1*Number of Engines^1 + 0.000001536 * Event Id^1*Engine Type^1 + 0.000000480 * Event Id^1*FAR Description^1 + 0.000001285 * Event Id^1*Schedule^1 + 0.000000728 * Event Id^1*Purpose of Flight^1 + -0.000000123 * Event Id^1*Air Carrier^1 + -0.000033434 * Event Id^1*Total Fatal Injuries^1 + 0.000039581 * Event Id^1*Total Serious Injuries^1 + 0.000000034 * Event Id^1*Total Minor Injuries^1 + 0.000000025 * Event Id^1*Total Uninjured^1 + 0.000008879 * Event Id^1*Weather Condition^1 + 0.000000913 * Event Id^1*Broad Phase of Flight^1 + -0.000000008 * Event Id^1*Report Publication Date^1 + 0.000003829 * Event Id^1*Unnamed: 30^1 + -0.000171398 * Investigation Type^2 + 0.000015345 * Investigation Type^1*Accident Number^1 + -0.000102060 * Investigation Type^1*Event Date^1 + 0.000005574 * Investigation Type^1*Location^1 + 0.006980329 * Investigation Type^1*Country^1 + -0.000228356 * Investigation Type^1*Latitude^1 + 0.000002902 * Investigation Type^1*Longitude^1 + -0.000198358 * Investigation Type^1*Airport Code^1 + 0.000110067 * Investigation Type^1*Airport Name^1 + -0.000385448 * Investigation Type^1*Injury Severity^1 + -

0.000008123 * Investigation Type^1*Aircraft Category^1 + -0.000009497 * Investigation
Type^1*Registration Number^1 + 0.000031640 * Investigation Type^1*Make^1 + 0.000027180 *
Investigation Type^1*Model^1 + -0.000017429 * Investigation Type^1*Amateur Built^1 + 0.000000529
* Investigation Type^1*Number of Engines^1 + -0.000021647 * Investigation Type^1*Engine Type^1 + -
0.000271581 * Investigation Type^1*FAR Description^1 + -0.000067813 * Investigation
Type^1*Schedule^1 + 0.000095865 * Investigation Type^1*Purpose of Flight^1 + -0.000183144 *
Investigation Type^1*Air Carrier^1 + -0.000118500 * Investigation Type^1*Total Fatal Injuries^1 +
0.000088818 * Investigation Type^1*Total Serious Injuries^1 + 0.000089346 * Investigation
Type^1*Total Minor Injuries^1 + 0.004568392 * Investigation Type^1*Total Uninjured^1 + 0.000087472
* Investigation Type^1*Weather Condition^1 + 0.000029888 * Investigation Type^1*Broad Phase of
Flight^1 + 0.000067859 * Investigation Type^1*Report Publication Date^1 + -0.000000129 *
Investigation Type^1*Unnamed: 30^1 + 0.000000000 * Accident Number^2 + 0.000000000 * Accident
Number^1*Event Date^1 + -0.000000000 * Accident Number^1*Location^1 + -0.000000126 * Accident
Number^1*Country^1 + 0.000000003 * Accident Number^1*Latitude^1 + -0.000000003 * Accident
Number^1*Longitude^1 + -0.000000001 * Accident Number^1*Airport Code^1 + 0.000000000 *
Accident Number^1*Airport Name^1 + 0.000000090 * Accident Number^1*Injury Severity^1 + -
0.00001398 * Accident Number^1*Aircraft Category^1 + -0.000000000 * Accident
Number^1*Registration Number^1 + 0.000000000 * Accident Number^1*Make^1 + 0.000000000 *
Accident Number^1*Model^1 + 0.000004988 * Accident Number^1*Amateur Built^1 + -0.000006645 *
Accident Number^1*Number of Engines^1 + 0.000000173 * Accident Number^1*Engine Type^1 +
0.000000277 * Accident Number^1*FAR Description^1 + -0.000001701 * Accident
Number^1*Schedule^1 + -0.000000571 * Accident Number^1*Purpose of Flight^1 + 0.000000052 *
Accident Number^1*Air Carrier^1 + 0.000003077 * Accident Number^1*Total Fatal Injuries^1 + -
0.000002213 * Accident Number^1*Total Serious Injuries^1 + 0.000000168 * Accident Number^1*Total
Minor Injuries^1 + 0.00000048 * Accident Number^1*Total Uninjured^1 + -0.000000990 * Accident
Number^1*Weather Condition^1 + 0.000000378 * Accident Number^1*Broad Phase of Flight^1 +
0.000000004 * Accident Number^1*Report Publication Date^1 + -0.000000251 * Accident
Number^1*Unnamed: 30^1 + 0.000000002 * Event Date^2 + 0.000000000 * Event Date^1*Location^1 +
0.000000204 * Event Date^1*Country^1 + -0.000000020 * Event Date^1*Latitude^1 + 0.000000008 *
Event Date^1*Longitude^1 + -0.000000003 * Event Date^1*Airport Code^1 + 0.000000001 * Event
Date^1*Airport Name^1 + -0.000000379 * Event Date^1*Injury Severity^1 + -0.000022799 * Event
Date^1*Aircraft Category^1 + -0.000000000 * Event Date^1*Registration Number^1 + 0.000000011 *
Event Date^1*Make^1 + -0.000000000 * Event Date^1*Model^1 + -0.000080030 * Event
Date^1*Amateur Built^1 + -0.000006797 * Event Date^1*Number of Engines^1 + -0.000001835 * Event
Date^1*Engine Type^1 + -0.000002848 * Event Date^1*FAR Description^1 + -0.000014795 * Event
Date^1*Schedule^1 + 0.000000380 * Event Date^1*Purpose of Flight^1 + -0.000000229 * Event
Date^1*Air Carrier^1 + 0.000045079 * Event Date^1*Total Fatal Injuries^1 + -0.000067933 * Event
Date^1*Total Serious Injuries^1 + -0.000005231 * Event Date^1*Total Minor Injuries^1 + -0.000000187
* Event Date^1*Total Uninjured^1 + 0.000030494 * Event Date^1*Weather Condition^1 + 0.000002016
* Event Date^1*Broad Phase of Flight^1 + 0.000000012 * Event Date^1*Report Publication Date^1 + -
0.000000132 * Event Date^1*Unnamed: 30^1 + -0.000000001 * Location^2 + -0.000000022 *
Location^1*Country^1 + -0.000000005 * Location^1*Latitude^1 + 0.000000001 *
Location^1*Longitude^1 + -0.000000015 * Location^1*Airport Code^1 + 0.000000002 *
Location^1*Airport Name^1 + -0.000000019 * Location^1*Injury Severity^1 + 0.000019847 *

Location^1*Aircraft Category^1 + 0.000000000 * Location^1*Registration Number^1 + 0.000000003 * Location^1*Make^1 + 0.000000001 * Location^1*Model^1 + -0.000003349 * Location^1*Amateur Built^1 + -0.000003162 * Location^1*Number of Engines^1 + 0.000009523 * Location^1*Engine Type^1 + -0.000002402 * Location^1*FAR Description^1 + -0.000011672 * Location^1*Schedule^1 + -0.000000913 * Location^1*Purpose of Flight^1 + 0.000000176 * Location^1*Air Carrier^1 + 0.000048849 * Location^1*Total Fatal Injuries^1 + -0.000034042 * Location^1*Total Serious Injuries^1 + -0.000001107 * Location^1*Total Minor Injuries^1 + -0.000000157 * Location^1*Total Uninjured^1 + 0.000006499 * Location^1*Weather Condition^1 + -0.000001178 * Location^1*Broad Phase of Flight^1 + 0.000000002 * Location^1*Report Publication Date^1 + 0.000000059 * Location^1*Unnamed: 30^1 + -0.000065865 * Country^2 + 0.000000107 * Country^1*Latitude^1 + -0.000002038 * Country^1*Longitude^1 + 0.000002281 * Country^1*Airport Code^1 + -0.000001727 * Country^1*Airport Name^1 + 0.000033555 * Country^1*Injury Severity^1 + 0.000178773 * Country^1*Aircraft Category^1 + 0.000000041 * Country^1*Registration Number^1 + 0.000000511 * Country^1*Make^1 + -0.000000138 * Country^1*Model^1 + 0.002909168 * Country^1*Amateur Built^1 + -0.000772132 * Country^1*Number of Engines^1 + -0.002216303 * Country^1*Engine Type^1 + 0.000433338 * Country^1*FAR Description^1 + -0.001501867 * Country^1*Schedule^1 + -0.000220911 * Country^1*Purpose of Flight^1 + 0.000007190 * Country^1*Air Carrier^1 + -0.000985744 * Country^1*Total Fatal Injuries^1 + -0.001931528 * Country^1*Total Serious Injuries^1 + -0.000081722 * Country^1*Total Minor Injuries^1 + 0.000032404 * Country^1*Total Uninjured^1 + 0.002538246 * Country^1*Weather Condition^1 + 0.001153230 * Country^1*Broad Phase of Flight^1 + 0.000003932 * Country^1*Report Publication Date^1 + 0.000000164 * Country^1*Unnamed: 30^1 + 0.000000000 * Latitude^2 + 0.000000005 * Latitude^1*Longitude^1 + 0.000000044 * Latitude^1*Airport Code^1 + -0.000000057 * Latitude^1*Airport Name^1 + 0.000039813 * Latitude^1*Injury Severity^1 + 0.000146134 * Latitude^1*Aircraft Category^1 + -0.000000000 * Latitude^1*Registration Number^1 + -0.000000055 * Latitude^1*Make^1 + 0.000000035 * Latitude^1*Model^1 + -0.000125229 * Latitude^1*Amateur Built^1 + -0.000029194 * Latitude^1*Number of Engines^1 + 0.000048195 * Latitude^1*Engine Type^1 + -0.000005833 * Latitude^1*FAR Description^1 + -0.000138468 * Latitude^1*Schedule^1 + 0.000009583 * Latitude^1*Purpose of Flight^1 + 0.000000549 * Latitude^1*Air Carrier^1 + -0.000123179 * Latitude^1*Total Fatal Injuries^1 + 0.000519274 * Latitude^1*Total Serious Injuries^1 + -0.000021153 * Latitude^1*Total Minor Injuries^1 + 0.000001430 * Latitude^1*Total Uninjured^1 + -0.000071663 * Latitude^1*Weather Condition^1 + 0.000009144 * Latitude^1*Broad Phase of Flight^1 + 0.000000048 * Latitude^1*Report Publication Date^1 + -0.000000025 * Latitude^1*Unnamed: 30^1 + 0.000000002 * Longitude^2 + -0.000000057 * Longitude^1*Airport Code^1 + -0.000000009 * Longitude^1*Airport Name^1 + -0.000027369 * Longitude^1*Injury Severity^1 + 0.000158625 * Longitude^1*Aircraft Category^1 + -0.000000002 * Longitude^1*Registration Number^1 + 0.000000067 * Longitude^1*Make^1 + 0.000000015 * Longitude^1*Model^1 + 0.000257049 * Longitude^1*Amateur Built^1 + -0.000006585 * Longitude^1*Number of Engines^1 + 0.000099350 * Longitude^1*Engine Type^1 + 0.000002019 * Longitude^1*FAR Description^1 + 0.000162676 * Longitude^1*Schedule^1 + 0.000003897 * Longitude^1*Purpose of Flight^1 + 0.000000316 * Longitude^1*Air Carrier^1 + -0.000030046 * Longitude^1*Total Fatal Injuries^1 + -0.000156789 * Longitude^1*Total Serious Injuries^1 + 0.000015361 * Longitude^1*Total Minor Injuries^1 + -0.000001320 * Longitude^1*Total Uninjured^1 + -0.000001175 * Longitude^1*Weather Condition^1 + 0.000009693 * Longitude^1*Broad Phase of Flight^1 + -0.000000080 * Longitude^1*Report Publication Date^1 + 0.000000030 *

Longitude^1*Unnamed: 30^1 + 0.000000076 * Airport Code^2 + -0.000000001 * Airport
Code^1*Airport Name^1 + -0.000013955 * Airport Code^1*Injury Severity^1 + 0.000018492 * Airport
Code^1*Aircraft Category^1 + 0.000000001 * Airport Code^1*Registration Number^1 + 0.000000039 *
Airport Code^1*Make^1 + -0.000000014 * Airport Code^1*Model^1 + 0.001102827 * Airport
Code^1*Amateur Built^1 + -0.000019646 * Airport Code^1*Number of Engines^1 + -0.000000377 *
Airport Code^1*Engine Type^1 + 0.000033787 * Airport Code^1*FAR Description^1 + -0.000058576 *
Airport Code^1*Schedule^1 + 0.000021038 * Airport Code^1*Purpose of Flight^1 + 0.000000045 *
Airport Code^1*Air Carrier^1 + 0.000178434 * Airport Code^1*Total Fatal Injuries^1 + -0.000184591 *
Airport Code^1*Total Serious Injuries^1 + 0.000003770 * Airport Code^1*Total Minor Injuries^1 + -
0.000000359 * Airport Code^1*Total Uninjured^1 + 0.000137878 * Airport Code^1*Weather
Condition^1 + -0.000003793 * Airport Code^1*Broad Phase of Flight^1 + -0.000000009 * Airport
Code^1*Report Publication Date^1 + 0.000000022 * Airport Code^1*Unnamed: 30^1 + -0.000000009 *
Airport Name^2 + 0.000001034 * Airport Name^1*Injury Severity^1 + -0.000004832 * Airport
Name^1*Aircraft Category^1 + 0.000000000 * Airport Name^1*Registration Number^1 + -0.000000047
* Airport Name^1*Make^1 + 0.000000016 * Airport Name^1*Model^1 + -0.000473280 * Airport
Name^1*Amateur Built^1 + 0.000026405 * Airport Name^1*Number of Engines^1 + -0.000023249 *
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Airport Name^1*Schedule^1 + -0.000009012 * Airport Name^1*Purpose of Flight^1 + -0.000000296 *
Airport Name^1*Air Carrier^1 + -0.000203601 * Airport Name^1*Total Fatal Injuries^1 + 0.000170985 *
Airport Name^1*Total Serious Injuries^1 + -0.000003154 * Airport Name^1*Total Minor Injuries^1 + -
0.000000190 * Airport Name^1*Total Uninjured^1 + -0.000016566 * Airport Name^1*Weather
Condition^1 + 0.000009976 * Airport Name^1*Broad Phase of Flight^1 + 0.000000022 * Airport
Name^1*Report Publication Date^1 + 0.000000017 * Airport Name^1*Unnamed: 30^1 + -0.000028435
* Injury Severity^2 + -0.000346099 * Injury Severity^1*Aircraft Category^1 + 0.000000006 * Injury
Severity^1*Registration Number^1 + 0.000000382 * Injury Severity^1*Make^1 + -0.000000321 * Injury
Severity^1*Model^1 + 0.001629085 * Injury Severity^1*Amateur Built^1 + 0.003208631 * Injury
Severity^1*Number of Engines^1 + 0.000544159 * Injury Severity^1*Engine Type^1 + -0.000033782 *
Injury Severity^1*FAR Description^1 + 0.001118492 * Injury Severity^1*Schedule^1 + 0.002502275 *
Injury Severity^1*Purpose of Flight^1 + -0.000024821 * Injury Severity^1*Air Carrier^1 + -0.003777073
* Injury Severity^1*Total Fatal Injuries^1 + -0.001251401 * Injury Severity^1*Total Serious Injuries^1 + -
0.000207561 * Injury Severity^1*Total Minor Injuries^1 + 0.000642418 * Injury Severity^1*Total
Uninjured^1 + -0.001044593 * Injury Severity^1*Weather Condition^1 + -0.000517256 * Injury
Severity^1*Broad Phase of Flight^1 + 0.000093328 * Injury Severity^1*Report Publication Date^1 +
0.000000027 * Injury Severity^1*Unnamed: 30^1 + -0.000067268 * Aircraft Category^2 + 0.000000184
* Aircraft Category^1*Registration Number^1 + 0.000063491 * Aircraft Category^1*Make^1 +
0.000048436 * Aircraft Category^1*Model^1 + -0.000000518 * Aircraft Category^1*Amateur Built^1 + -
0.000012771 * Aircraft Category^1*Number of Engines^1 + -0.000014071 * Aircraft Category^1*Engine
Type^1 + -0.000221920 * Aircraft Category^1*FAR Description^1 + -0.000097693 * Aircraft
Category^1*Schedule^1 + 0.000201375 * Aircraft Category^1*Purpose of Flight^1 + 0.002160208 *
Aircraft Category^1*Air Carrier^1 + -0.000393442 * Aircraft Category^1*Total Fatal Injuries^1 +
0.000127738 * Aircraft Category^1*Total Serious Injuries^1 + -0.000573799 * Aircraft Category^1*Total
Minor Injuries^1 + 0.001972715 * Aircraft Category^1*Total Uninjured^1 + -0.000083127 * Aircraft
Category^1*Weather Condition^1 + -0.000345343 * Aircraft Category^1*Broad Phase of Flight^1 + -
0.000105375 * Aircraft Category^1*Report Publication Date^1 + 0.000000004 * Aircraft

Category^1*Unnamed: 30^1 + -0.000000000 * Registration Number^2 + 0.000000001 * Registration Number^1*Make^1 + -0.000000000 * Registration Number^1*Model^1 + 0.000003548 * Registration Number^1*Amateur Built^1 + 0.000000957 * Registration Number^1*Number of Engines^1 + 0.000001762 * Registration Number^1*Engine Type^1 + 0.000000597 * Registration Number^1*FAR Description^1 + 0.000001401 * Registration Number^1*Schedule^1 + 0.000000144 * Registration Number^1*Purpose of Flight^1 + 0.000000075 * Registration Number^1*Air Carrier^1 + 0.000011309 * Registration Number^1*Total Fatal Injuries^1 + -0.000017342 * Registration Number^1*Total Serious Injuries^1 + 0.000000131 * Registration Number^1*Total Minor Injuries^1 + -0.000000001 * Registration Number^1*Total Uninjured^1 + -0.000003134 * Registration Number^1*Weather Condition^1 + 0.000000536 * Registration Number^1*Broad Phase of Flight^1 + 0.000000002 * Registration Number^1*Report Publication Date^1 + 0.000000004 * Registration Number^1*Unnamed: 30^1 + -0.000000020 * Make^2 + -0.000000019 * Make^1*Model^1 + -0.000027974 * Make^1*Amateur Built^1 + -0.000179178 * Make^1*Number of Engines^1 + 0.000019794 * Make^1*Engine Type^1 + -0.000008780 * Make^1*FAR Description^1 + 0.000016439 * Make^1*Schedule^1 + 0.000007978 * Make^1*Purpose of Flight^1 + -0.000001306 * Make^1*Air Carrier^1 + -0.000111361 * Make^1*Total Fatal Injuries^1 + 0.000093905 * Make^1*Total Serious Injuries^1 + -0.000015562 * Make^1*Total Minor Injuries^1 + -0.000001571 * Make^1*Total Uninjured^1 + -0.000026047 * Make^1*Weather Condition^1 + 0.000011635 * Make^1*Broad Phase of Flight^1 + -0.000000021 * Make^1*Report Publication Date^1 + -0.000000002 * Make^1*Unnamed: 30^1 + 0.000000003 * Model^2 + 0.000058921 * Model^1*Amateur Built^1 + 0.000099840 * Model^1*Number of Engines^1 + 0.000000034 * Model^1*Engine Type^1 + 0.000000703 * Model^1*FAR Description^1 + 0.000020596 * Model^1*Schedule^1 + -0.000002356 * Model^1*Purpose of Flight^1 + 0.000000115 * Model^1*Air Carrier^1 + 0.000165973 * Model^1*Total Fatal Injuries^1 + -0.000108350 * Model^1*Total Serious Injuries^1 + 0.000002767 * Model^1*Total Minor Injuries^1 + 0.000000361 * Model^1*Total Uninjured^1 + -0.000057548 * Model^1*Weather Condition^1 + -0.000002678 * Model^1*Broad Phase of Flight^1 + -0.000000022 * Model^1*Report Publication Date^1 + -0.000000005 * Model^1*Unnamed: 30^1 + -0.000013253 * Amateur Built^2 + -0.000017709 * Amateur Built^1*Number of Engines^1 + 0.000087760 * Amateur Built^1*Engine Type^1 + -0.000005733 * Amateur Built^1*FAR Description^1 + -0.000066977 * Amateur Built^1*Schedule^1 + -0.000374248 * Amateur Built^1*Purpose of Flight^1 + -0.000184013 * Amateur Built^1*Air Carrier^1 + 0.000465873 * Amateur Built^1*Total Fatal Injuries^1 + -0.000128367 * Amateur Built^1*Total Serious Injuries^1 + -0.000034834 * Amateur Built^1*Total Minor Injuries^1 + 0.004526049 * Amateur Built^1*Total Uninjured^1 + -0.000002333 * Amateur Built^1*Weather Condition^1 + -0.000089960 * Amateur Built^1*Broad Phase of Flight^1 + 0.000404570 * Amateur Built^1*Report Publication Date^1 + -0.000000003 * Amateur Built^1*Unnamed: 30^1 + 0.000182670 * Number of Engines^2 + 0.000635735 * Number of Engines^1*Engine Type^1 + -0.000621590 * Number of Engines^1*FAR Description^1 + -0.000027634 * Number of Engines^1*Schedule^1 + -0.001264587 * Number of Engines^1*Purpose of Flight^1 + -0.000203534 * Number of Engines^1*Air Carrier^1 + 0.003035770 * Number of Engines^1*Total Fatal Injuries^1 + -0.000357833 * Number of Engines^1*Total Serious Injuries^1 + -0.001052874 * Number of Engines^1*Total Minor Injuries^1 + -0.002328361 * Number of Engines^1*Total Uninjured^1 + -0.000003695 * Number of Engines^1*Weather Condition^1 + -0.000386729 * Number of Engines^1*Broad Phase of Flight^1 + -0.000206567 * Number of Engines^1*Report Publication Date^1 + 0.000000001 * Number of Engines^1*Unnamed: 30^1 + -0.000453298 * Engine Type^2 + -0.000171526 * Engine Type^1*FAR Description^1 + 0.000223411 *

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Condition^2 + -0.000083121 * Weather Condition^1*Broad Phase of Flight^1 + 0.000070342 * Weather Condition^1*Report Publication Date^1 + 0.000000004 * Weather Condition^1*Unnamed: 30^1 + -0.000144132 * Broad Phase of Flight^2 + -0.000008419 * Broad Phase of Flight^1*Report Publication Date^1 + -0.000000001 * Broad Phase of Flight^1*Unnamed: 30^1 + -0.000000189 * Report Publication Date^2 + -0.000000002 * Report Publication Date^1*Unnamed: 30^1 + 0.000000003 * Unnamed: 30^2 + 0.000000000 * Event Id^3 + 0.000000000 * Event Id^2*Investigation Type^1 + 0.000000000 * Event Id^2*Accident Number^1 + 0.000000000 * Event Id^2*Event Date^1 + 0.000000000 * Event Id^2*Location^1 + 0.000000000 * Event Id^2*Country^1 + 0.000000000 * Event Id^2*Latitude^1 + 0.000000000 * Event Id^2*Longitude^1 + -0.000000000 * Event Id^2*Airport Code^1 + -0.000000000 * Event Id^2*Airport Name^1 + -0.000000000 * Event Id^2*Injury Severity^1 + 0.000000000 * Event Id^2*Aircraft Category^1 + -0.000000000 * Event Id^2*Registration Number^1 + 0.000000000 * Event Id^2*Make^1 + 0.000000000 * Event Id^2*Model^1 + 0.000000000 * Event Id^2*Amateur Built^1 + 0.000000000 * Event Id^2*Number of Engines^1 + -0.000000000 * Event Id^2*Engine Type^1 + 0.000000000 * Event Id^2*FAR Description^1 + -0.000000000 * Event Id^2*Schedule^1 + -0.000000000 * Event Id^2*Purpose of Flight^1 + -0.000000000 * Event Id^2*Air Carrier^1 + -0.000000000 * Event Id^2>Total Fatal Injuries^1 + 0.000000000 * Event Id^2>Total Serious Injuries^1 + 0.000000000 * Event Id^2>Total Minor Injuries^1 + -0.000000000 * Event Id^2>Total Uninjured^1 + -0.000000000 * Event Id^2*Weather Condition^1 + -0.000000000 * Event Id^2*Broad Phase of Flight^1 + -0.000000000 * Event Id^2*Report Publication Date^1 + 0.000000000 * Event Id^2*Unnamed: 30^1 + 0.000012661 * Event Id^1*Investigation Type^2 + -0.000000000 * Event Id^1*Investigation Type^1*Accident Number^1 + -0.000000000 * Event Id^1*Investigation Type^1*Event Date^1 + -0.000000000 * Event Id^1*Investigation Type^1*Location^1 + -0.000000019 * Event Id^1*Investigation Type^1*Country^1 + -0.000000002 * Event Id^1*Investigation Type^1*Latitude^1 + -0.000000006 * Event Id^1*Investigation Type^1*Longitude^1 + 0.000000000 * Event Id^1*Investigation Type^1*Airport Code^1 + 0.000000001 * Event Id^1*Investigation Type^1*Airport Name^1 + -0.000000105 * Event Id^1*Investigation Type^1*Injury Severity^1 + -0.000002994 * Event Id^1*Investigation Type^1*Aircraft Category^1 + 0.000000000 * Event Id^1*Investigation Type^1*Registration Number^1 + 0.000000000 * Event Id^1*Investigation Type^1*Make^1 + 0.000000000 * Event Id^1*Investigation Type^1*Model^1 + -0.000004660 * Event Id^1*Investigation Type^1*Amateur Built^1 + -0.000001555 * Event Id^1*Investigation Type^1*Number of Engines^1 + 0.000000467 * Event Id^1*Investigation Type^1*Engine Type^1 + -0.000000169 * Event Id^1*Investigation Type^1*FAR Description^1 + 0.000003841 * Event Id^1*Investigation Type^1*Schedule^1 + -0.000001230 * Event Id^1*Investigation Type^1*Purpose of Flight^1 + -0.000000002 * Event Id^1*Investigation Type^1*Air Carrier^1 + 0.000033478 * Event Id^1*Investigation Type^1>Total Fatal Injuries^1 + -0.000041328 * Event Id^1*Investigation Type^1>Total Serious Injuries^1 + -0.000000327 * Event Id^1*Investigation Type^1>Total Minor Injuries^1 + -0.000000045 * Event Id^1*Investigation Type^1>Total Uninjured^1 + 0.000000449 * Event Id^1*Investigation Type^1*Weather Condition^1 + -0.000000474 * Event Id^1*Investigation Type^1*Broad Phase of Flight^1 + 0.000000003 * Event Id^1*Investigation Type^1*Report Publication Date^1 + 0.000000001 * Event Id^1*Investigation Type^1*Unnamed: 30^1 + 0.000000000 * Event Id^1*Accident Number^2 + 0.000000000 * Event Id^1*Accident Number^1*Event Date^1 + 0.000000000 * Event Id^1*Accident Number^1*Location^1 + 0.000000000 * Event Id^1*Accident Number^1*Country^1 + -0.000000000 * Event Id^1*Accident Number^1*Latitude^1 + 0.000000000 * Event Id^1*Accident Number^1*Longitude^1 + 0.000000000 * Event Id^1*Accident Number^1*Airport Code^1 + -0.000000000 * Event Id^1*Accident Number^1*Airport Name^1 +

0.000000000 * Event Id^1*Accident Number^1*Injury Severity^1 + -0.000000000 * Event Id^1*Accident Number^1*Aircraft Category^1 + 0.000000000 * Event Id^1*Accident Number^1*Registration Number^1 + 0.000000000 * Event Id^1*Accident Number^1*Make^1 + 0.000000000 * Event Id^1*Accident Number^1*Model^1 + -0.000000000 * Event Id^1*Accident Number^1*Amateur Built^1 + 0.000000000 * Event Id^1*Accident Number^1*Number of Engines^1 + 0.000000000 * Event Id^1*Accident Number^1*Engine Type^1 + -0.000000000 * Event Id^1*Accident Number^1*FAR Description^1 + -0.000000000 * Event Id^1*Accident Number^1*Schedule^1 + 0.000000000 * Event Id^1*Accident Number^1*Purpose of Flight^1 + 0.000000000 * Event Id^1*Accident Number^1*Air Carrier^1 + 0.000000000 * Event Id^1*Accident Number^1*Total Fatal Injuries^1 + -0.000000000 * Event Id^1*Accident Number^1*Total Serious Injuries^1 + -0.000000000 * Event Id^1*Accident Number^1*Total Minor Injuries^1 + 0.000000000 * Event Id^1*Accident Number^1*Total Uninjured^1 + 0.000000000 * Event Id^1*Accident Number^1*Weather Condition^1 + -0.000000000 * Event Id^1*Accident Number^1*Broad Phase of Flight^1 + -0.000000000 * Event Id^1*Accident Number^1*Report Publication Date^1 + -0.000000001 * Event Id^1*Accident Number^1*Unnamed: 30^1 + 0.000000000 * Event Id^1*Event Date^2 + 0.000000000 * Event Id^1*Event Date^1*Location^1 + -0.000000000 * Event Id^1*Event Date^1*Country^1 + 0.000000000 * Event Id^1*Event Date^1*Latitude^1 + 0.000000000 * Event Id^1*Event Date^1*Longitude^1 + 0.000000000 * Event Id^1*Event Date^1*Airport Code^1 + -0.000000000 * Event Id^1*Event Date^1*Airport Name^1 + 0.000000000 * Event Id^1*Event Date^1*Injury Severity^1 + -0.000000000 * Event Id^1*Event Date^1*Aircraft Category^1 + 0.000000000 * Event Id^1*Event Date^1*Registration Number^1 + -0.000000000 * Event Id^1*Event Date^1*Make^1 + 0.000000000 * Event Id^1*Event Date^1*Model^1 + 0.000000000 * Event Id^1*Event Date^1*Amateur Built^1 + -0.000000000 * Event Id^1*Event Date^1*Number of Engines^1 + 0.000000000 * Event Id^1*Event Date^1*Engine Type^1 + 0.000000000 * Event Id^1*Event Date^1*FAR Description^1 + 0.000000000 * Event Id^1*Event Date^1*Schedule^1 + 0.000000000 * Event Id^1*Event Date^1*Purpose of Flight^1 + 0.000000000 * Event Id^1*Event Date^1*Air Carrier^1 + 0.000000000 * Event Id^1*Event Date^1*Total Fatal Injuries^1 + -0.000000000 * Event Id^1*Event Date^1*Total Serious Injuries^1 + 0.000000000 * Event Id^1*Event Date^1*Total Minor Injuries^1 + -0.000000000 * Event Id^1*Event Date^1*Total Uninjured^1 + -0.000000000 * Event Id^1*Event Date^1*Weather Condition^1 + 0.000000000 * Event Id^1*Event Date^1*Broad Phase of Flight^1 + 0.000000000 * Event Id^1*Event Date^1*Report Publication Date^1 + 0.000000000 * Event Id^1*Event Date^1*Unnamed: 30^1 + 0.000000000 * Event Id^1*Location^2 + 0.000000000 * Event Id^1*Location^1*Country^1 + -0.000000000 * Event Id^1*Location^1*Latitude^1 + -0.000000000 * Event Id^1*Location^1*Longitude^1 + 0.000000000 * Event Id^1*Location^1*Airport Code^1 + -0.000000000 * Event Id^1*Location^1*Airport Name^1 + -0.000000000 * Event Id^1*Location^1*Injury Severity^1 + 0.000000000 * Event Id^1*Location^1*Aircraft Category^1 + -0.000000000 * Event Id^1*Location^1*Registration Number^1 + -0.000000000 * Event Id^1*Location^1*Make^1 + 0.000000000 * Event Id^1*Location^1*Model^1 + -0.000000000 * Event Id^1*Location^1*Amateur Built^1 + 0.000000000 * Event Id^1*Location^1*Number of Engines^1 + -0.000000000 * Event Id^1*Location^1*Engine Type^1 + -0.000000000 * Event Id^1*Location^1*FAR Description^1 + 0.000000000 * Event Id^1*Location^1*Schedule^1 + 0.000000000 * Event Id^1*Location^1*Purpose of Flight^1 + 0.000000000 * Event Id^1*Location^1*Air Carrier^1 + 0.000000000 * Event Id^1*Location^1*Total Fatal Injuries^1 + -0.000000000 * Event Id^1*Location^1*Total Serious Injuries^1 + -0.000000000 * Event Id^1*Location^1*Total Minor Injuries^1 + -0.000000000 * Event Id^1*Location^1*Total Uninjured^1 + -0.000000000 * Event Id^1*Location^1*Weather Condition^1 +

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Id^1*Country^1*Total Serious Injuries^1 + -0.000000004 * Event Id^1*Country^1*Total Minor
Injuries^1 + 0.000000000 * Event Id^1*Country^1*Total Uninjured^1 + 0.000000002 * Event
Id^1*Country^1*Weather Condition^1 + 0.000000002 * Event Id^1*Country^1*Broad Phase of Flight^1 +
+ 0.000000000 * Event Id^1*Country^1*Report Publication Date^1 + 0.000000000 * Event
Id^1*Country^1*Unnamed: 30^1 + -0.000000000 * Event Id^1*Latitude^2 + -0.000000000 * Event
Id^1*Latitude^1*Longitude^1 + -0.000000000 * Event Id^1*Latitude^1*Airport Code^1 + 0.000000000
* Event Id^1*Latitude^1*Airport Name^1 + -0.000000000 * Event Id^1*Latitude^1*Injury Severity^1 +
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Id^1*Latitude^1*Registration Number^1 + 0.000000000 * Event Id^1*Latitude^1*Make^1 + -
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Built^1 + 0.000000000 * Event Id^1*Latitude^1*Number of Engines^1 + -0.000000000 * Event
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Flight^1 + 0.000000000 * Event Id^1*Latitude^1*Air Carrier^1 + 0.000000000 * Event
Id^1*Latitude^1*Total Fatal Injuries^1 + 0.000000000 * Event Id^1*Latitude^1*Total Serious Injuries^1 +
-0.000000000 * Event Id^1*Latitude^1*Total Minor Injuries^1 + -0.000000000 * Event
Id^1*Latitude^1*Total Uninjured^1 + -0.000000001 * Event Id^1*Latitude^1*Weather Condition^1 + -
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Id^1*Longitude^1*Make^1 + -0.000000000 * Event Id^1*Longitude^1*Model^1 + -0.000000001 * Event
Id^1*Longitude^1*Amateur Built^1 + -0.000000000 * Event Id^1*Longitude^1*Number of Engines^1 + -
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Description^1 + 0.000000000 * Event Id^1*Longitude^1*Schedule^1 + -0.000000000 * Event
Id^1*Longitude^1*Purpose of Flight^1 + 0.000000000 * Event Id^1*Longitude^1*Air Carrier^1 +
0.000000000 * Event Id^1*Longitude^1*Total Fatal Injuries^1 + -0.000000000 * Event
Id^1*Longitude^1*Total Serious Injuries^1 + -0.000000000 * Event Id^1*Longitude^1*Total Minor
Injuries^1 + 0.000000000 * Event Id^1*Longitude^1*Total Uninjured^1 + 0.000000001 * Event

Id^1*Longitude^1*Weather Condition^1 + -0.000000000 * Event Id^1*Longitude^1*Broad Phase of Flight^1 + 0.000000000 * Event Id^1*Longitude^1*Report Publication Date^1 + 0.000000001 * Event Id^1*Longitude^1*Unnamed: 30^1 + -0.000000000 * Event Id^1*Airport Code^2 + -0.000000000 * Event Id^1*Airport Code^1*Airport Name^1 + -0.000000000 * Event Id^1*Airport Code^1*Injury Severity^1 + 0.000000001 * Event Id^1*Airport Code^1*Aircraft Category^1 + 0.000000000 * Event Id^1*Airport Code^1*Registration Number^1 + -0.000000000 * Event Id^1*Airport Code^1*Make^1 + -0.000000000 * Event Id^1*Airport Code^1*Model^1 + -0.000000000 * Event Id^1*Airport Code^1*Amateur Built^1 + 0.000000001 * Event Id^1*Airport Code^1*Number of Engines^1 + -0.000000000 * Event Id^1*Airport Code^1*Engine Type^1 + -0.000000000 * Event Id^1*Airport Code^1*FAR Description^1 + -0.000000000 * Event Id^1*Airport Code^1*Schedule^1 + -0.000000000 * Event Id^1*Airport Code^1*Purpose of Flight^1 + 0.000000000 * Event Id^1*Airport Code^1*Air Carrier^1 + -0.000000000 * Event Id^1*Airport Code^1*Total Fatal Injuries^1 + -0.000000000 * Event Id^1*Airport Code^1*Total Serious Injuries^1 + -0.000000000 * Event Id^1*Airport Code^1*Total Minor Injuries^1 + 0.000000000 * Event Id^1*Airport Code^1*Total Uninjured^1 + -0.000000000 * Event Id^1*Airport Code^1*Weather Condition^1 + 0.000000000 * Event Id^1*Airport Code^1*Broad Phase of Flight^1 + -0.000000000 * Event Id^1*Airport Code^1*Report Publication Date^1 + 0.000000000 * Event Id^1*Airport Code^1*Unnamed: 30^1 + 0.000000000 * Event Id^1*Airport Name^2 + 0.000000000 * Event Id^1*Airport Name^1*Injury Severity^1 + 0.000000000 * Event Id^1*Airport Name^1*Aircraft Category^1 + -0.000000000 * Event Id^1*Airport Name^1*Registration Number^1 + 0.000000000 * Event Id^1*Airport Name^1*Make^1 + 0.000000000 * Event Id^1*Airport Name^1*Model^1 + 0.000000000 * Event Id^1*Airport Name^1*Amateur Built^1 + -0.000000000 * Event Id^1*Airport Name^1*Number of Engines^1 + -0.000000000 * Event Id^1*Airport Name^1*Engine Type^1 + -0.000000000 * Event Id^1*Airport Name^1*FAR Description^1 + 0.000000000 * Event Id^1*Airport Name^1*Schedule^1 + 0.000000000 * Event Id^1*Airport Name^1*Purpose of Flight^1 + -0.000000000 * Event Id^1*Airport Name^1*Air Carrier^1 + 0.000000000 * Event Id^1*Airport Name^1*Total Fatal Injuries^1 + -0.000000000 * Event Id^1*Airport Name^1*Total Serious Injuries^1 + -0.000000000 * Event Id^1*Airport Name^1*Total Minor Injuries^1 + -0.000000000 * Event Id^1*Airport Name^1*Total Uninjured^1 + 0.000000000 * Event Id^1*Airport Name^1*Weather Condition^1 + -0.000000000 * Event Id^1*Airport Name^1*Broad Phase of Flight^1 + 0.000000000 * Event Id^1*Airport Name^1*Report Publication Date^1 + -0.000000000 * Event Id^1*Airport Name^1*Unnamed: 30^1 + 0.000000000 * Event Id^1*Injury Severity^2 + 0.000000101 * Event Id^1*Injury Severity^1*Aircraft Category^1 + -0.000000000 * Event Id^1*Injury Severity^1*Registration Number^1 + -0.000000000 * Event Id^1*Injury Severity^1*Make^1 + 0.000000000 * Event Id^1*Injury Severity^1*Model^1 + -0.000000011 * Event Id^1*Injury Severity^1*Amateur Built^1 + 0.000000052 * Event Id^1*Injury Severity^1*Number of Engines^1 + -0.000000001 * Event Id^1*Injury Severity^1*Engine Type^1 + -0.000000002 * Event Id^1*Injury Severity^1*FAR Description^1 + 0.000000022 * Event Id^1*Injury Severity^1*Schedule^1 + 0.000000001 * Event Id^1*Injury Severity^1*Purpose of Flight^1 + -0.000000000 * Event Id^1*Injury Severity^1*Air Carrier^1 + 0.000000004 * Event Id^1*Injury Severity^1*Total Fatal Injuries^1 + -0.000000004 * Event Id^1*Injury Severity^1*Total Serious Injuries^1 + -0.000000004 * Event Id^1*Injury Severity^1*Total Minor Injuries^1 + -0.000000000 * Event Id^1*Injury Severity^1*Total Uninjured^1 + -0.000000022 * Event Id^1*Injury Severity^1*Weather Condition^1 + -0.000000003 * Event Id^1*Injury Severity^1*Broad Phase of Flight^1 + 0.000000000 * Event Id^1*Injury Severity^1*Report Publication Date^1 + 0.000000000 * Event Id^1*Injury Severity^1*Unnamed: 30^1 +

-0.000000741 * Event Id^1*Aircraft Category^2 + 0.000000000 * Event Id^1*Aircraft Category^1*Registration Number^1 + 0.000000000 * Event Id^1*Aircraft Category^1*Make^1 + 0.000000000 * Event Id^1*Aircraft Category^1*Model^1 + 0.000000114 * Event Id^1*Aircraft Category^1*Amateur Built^1 + -0.000003180 * Event Id^1*Aircraft Category^1*Number of Engines^1 + 0.000001894 * Event Id^1*Aircraft Category^1*Engine Type^1 + 0.000000405 * Event Id^1*Aircraft Category^1*FAR Description^1 + -0.000002070 * Event Id^1*Aircraft Category^1*Schedule^1 + 0.000000031 * Event Id^1*Aircraft Category^1*Purpose of Flight^1 + -0.000000027 * Event Id^1*Aircraft Category^1*Air Carrier^1 + 0.000000045 * Event Id^1*Aircraft Category^1*Total Fatal Injuries^1 + -0.000000025 * Event Id^1*Aircraft Category^1*Total Serious Injuries^1 + 0.000000213 * Event Id^1*Aircraft Category^1*Total Minor Injuries^1 + -0.000000036 * Event Id^1*Aircraft Category^1*Total Uninjured^1 + -0.000001133 * Event Id^1*Aircraft Category^1*Weather Condition^1 + 0.000000079 * Event Id^1*Aircraft Category^1*Broad Phase of Flight^1 + 0.000000003 * Event Id^1*Aircraft Category^1*Report Publication Date^1 + -0.000000000 * Event Id^1*Aircraft Category^1*Unnamed: 30^1 + 0.000000000 * Event Id^1*Registration Number^2 + 0.000000000 * Event Id^1*Registration Number^1*Make^1 + -0.000000000 * Event Id^1*Registration Number^1*Model^1 + 0.000000000 * Event Id^1*Registration Number^1*Amateur Built^1 + 0.000000000 * Event Id^1*Registration Number^1*Number of Engines^1 + -0.000000000 * Event Id^1*Registration Number^1*Engine Type^1 + 0.000000000 * Event Id^1*Registration Number^1*FAR Description^1 + -0.000000000 * Event Id^1*Registration Number^1*Schedule^1 + -0.000000000 * Event Id^1*Registration Number^1*Purpose of Flight^1 + 0.000000000 * Event Id^1*Registration Number^1*Air Carrier^1 + -0.000000000 * Event Id^1*Registration Number^1*Total Fatal Injuries^1 + -0.000000000 * Event Id^1*Registration Number^1*Total Serious Injuries^1 + -0.000000000 * Event Id^1*Registration Number^1*Total Minor Injuries^1 + -0.000000000 * Event Id^1*Registration Number^1*Total Uninjured^1 + -0.000000000 * Event Id^1*Registration Number^1*Weather Condition^1 + 0.000000000 * Event Id^1*Registration Number^1*Broad Phase of Flight^1 + -0.000000000 * Event Id^1*Registration Number^1*Report Publication Date^1 + -0.000000000 * Event Id^1*Registration Number^1*Unnamed: 30^1 + 0.000000000 * Event Id^1*Make^2 + 0.000000000 * Event Id^1*Make^1*Model^1 + -0.000000000 * Event Id^1*Make^1*Amateur Built^1 + 0.000000001 * Event Id^1*Make^1*Number of Engines^1 + 0.000000000 * Event Id^1*Make^1*Engine Type^1 + 0.000000000 * Event Id^1*Make^1*FAR Description^1 + -0.000000001 * Event Id^1*Make^1*Schedule^1 + -0.000000000 * Event Id^1*Make^1*Purpose of Flight^1 + 0.000000000 * Event Id^1*Make^1*Air Carrier^1 + 0.000000000 * Event Id^1*Make^1*Total Fatal Injuries^1 + -0.000000000 * Event Id^1*Make^1*Total Serious Injuries^1 + 0.000000000 * Event Id^1*Make^1*Total Minor Injuries^1 + 0.000000000 * Event Id^1*Make^1*Total Uninjured^1 + -0.000000000 * Event Id^1*Make^1*Weather Condition^1 + -0.000000000 * Event Id^1*Make^1*Broad Phase of Flight^1 + -0.000000000 * Event Id^1*Make^1*Report Publication Date^1 + 0.000000000 * Event Id^1*Make^1*Unnamed: 30^1 + 0.000000000 * Event Id^1*Model^2 + -0.000000000 * Event Id^1*Model^1*Amateur Built^1 + -0.000000000 * Event Id^1*Model^1*Number of Engines^1 + 0.000000000 * Event Id^1*Model^1*Engine Type^1 + 0.000000000 * Event Id^1*Model^1*FAR Description^1 + -0.000000000 * Event Id^1*Model^1*Schedule^1 + -0.000000000 * Event Id^1*Model^1*Purpose of Flight^1 + -0.000000000 * Event Id^1*Model^1*Air Carrier^1 + 0.000000000 * Event Id^1*Model^1*Total Fatal Injuries^1 + 0.000000000 * Event Id^1*Model^1*Total Serious Injuries^1 + -0.000000000 * Event Id^1*Model^1*Total Minor Injuries^1 + -0.000000000 * Event Id^1*Model^1*Total Uninjured^1 + 0.000000000 * Event Id^1*Model^1*Weather Condition^1 +

0.000000000 * Event Id^1*Model^1*Broad Phase of Flight^1 + 0.000000000 * Event Id^1*Model^1*Report Publication Date^1 + -0.000000000 * Event Id^1*Model^1*Unnamed: 30^1 + 0.000000335 * Event Id^1*Amateur Built^2 + 0.000001857 * Event Id^1*Amateur Built^1*Number of Engines^1 + -0.000000548 * Event Id^1*Amateur Built^1*Engine Type^1 + -0.000000124 * Event Id^1*Amateur Built^1*FAR Description^1 + 0.000002569 * Event Id^1*Amateur Built^1*Schedule^1 + 0.000000569 * Event Id^1*Amateur Built^1*Purpose of Flight^1 + 0.000000097 * Event Id^1*Amateur Built^1*Air Carrier^1 + 0.000000006 * Event Id^1*Amateur Built^1*Total Fatal Injuries^1 + 0.000001132 * Event Id^1*Amateur Built^1*Total Serious Injuries^1 + 0.000000086 * Event Id^1*Amateur Built^1*Total Minor Injuries^1 + 0.000000015 * Event Id^1*Amateur Built^1*Total Uninjured^1 + -0.000002004 * Event Id^1*Amateur Built^1*Weather Condition^1 + -0.000000440 * Event Id^1*Amateur Built^1*Broad Phase of Flight^1 + 0.000000000 * Event Id^1*Amateur Built^1*Report Publication Date^1 + -0.000000000 * Event Id^1*Amateur Built^1*Unnamed: 30^1 + -0.000000302 * Event Id^1*Number of Engines^2 + -0.000000549 * Event Id^1*Number of Engines^1*Engine Type^1 + 0.000000508 * Event Id^1*Number of Engines^1*FAR Description^1 + 0.000001046 * Event Id^1*Number of Engines^1*Schedule^1 + -0.000000114 * Event Id^1*Number of Engines^1*Purpose of Flight^1 + 0.000000006 * Event Id^1*Number of Engines^1*Air Carrier^1 + 0.000000004 * Event Id^1*Number of Engines^1*Total Fatal Injuries^1 + 0.000000291 * Event Id^1*Number of Engines^1*Total Serious Injuries^1 + 0.000000265 * Event Id^1*Number of Engines^1*Total Minor Injuries^1 + -0.000000003 * Event Id^1*Number of Engines^1*Total Uninjured^1 + 0.000000021 * Event Id^1*Number of Engines^1*Weather Condition^1 + 0.000000012 * Event Id^1*Number of Engines^1*Broad Phase of Flight^1 + 0.000000000 * Event Id^1*Number of Engines^1*Report Publication Date^1 + 0.000000000 * Event Id^1*Number of Engines^1*Unnamed: 30^1 + -0.000000376 * Event Id^1*Engine Type^2 + -0.000000220 * Event Id^1*Engine Type^1*FAR Description^1 + -0.000000250 * Event Id^1*Engine Type^1*Schedule^1 + -0.000000085 * Event Id^1*Engine Type^1*Purpose of Flight^1 + 0.000000001 * Event Id^1*Engine Type^1*Air Carrier^1 + 0.000000035 * Event Id^1*Engine Type^1*Total Fatal Injuries^1 + 0.000000019 * Event Id^1*Engine Type^1*Total Serious Injuries^1 + 0.000000107 * Event Id^1*Engine Type^1*Total Minor Injuries^1 + 0.000000005 * Event Id^1*Engine Type^1*Total Uninjured^1 + 0.000000080 * Event Id^1*Engine Type^1*Weather Condition^1 + 0.000000091 * Event Id^1*Engine Type^1*Broad Phase of Flight^1 + 0.000000001 * Event Id^1*Engine Type^1*Report Publication Date^1 + -0.000000000 * Event Id^1*Engine Type^1*Unnamed: 30^1 + -0.000000013 * Event Id^1*FAR Description^2 + 0.000000261 * Event Id^1*FAR Description^1*Schedule^1 + -0.000000005 * Event Id^1*FAR Description^1*Purpose of Flight^1 + 0.000000002 * Event Id^1*FAR Description^1*Air Carrier^1 + 0.000000008 * Event Id^1*FAR Description^1*Total Fatal Injuries^1 + 0.000000010 * Event Id^1*FAR Description^1*Total Serious Injuries^1 + -0.000000096 * Event Id^1*FAR Description^1*Total Minor Injuries^1 + 0.000000000 * Event Id^1*FAR Description^1*Total Uninjured^1 + -0.000000109 * Event Id^1*FAR Description^1*Weather Condition^1 + 0.000000032 * Event Id^1*FAR Description^1*Broad Phase of Flight^1 + -0.000000000 * Event Id^1*FAR Description^1*Report Publication Date^1 + -0.000000000 * Event Id^1*FAR Description^1*Unnamed: 30^1 + -0.000001460 * Event Id^1*Schedule^2 + 0.000000126 * Event Id^1*Schedule^1*Purpose of Flight^1 + -0.000000003 * Event Id^1*Schedule^1*Air Carrier^1 + -0.000000068 * Event Id^1*Schedule^1*Total Fatal Injuries^1 + -0.000000427 * Event Id^1*Schedule^1*Total Serious Injuries^1 + -0.000000159 * Event Id^1*Schedule^1*Total Minor Injuries^1 + -0.000000017 * Event Id^1*Schedule^1*Total Uninjured^1 + 0.000000347 * Event Id^1*Schedule^1*Weather Condition^1 + 0.000000056 * Event

Id^1*Schedule^1*Broad Phase of Flight^1 + -0.000000001 * Event Id^1*Schedule^1*Report Publication Date^1 + -0.000000000 * Event Id^1*Schedule^1*Unnamed: 30^1 + -0.000000028 * Event Id^1*Purpose of Flight^2 + 0.000000001 * Event Id^1*Purpose of Flight^1*Air Carrier^1 + 0.000000002 * Event Id^1*Purpose of Flight^1*Total Fatal Injuries^1 + 0.000000048 * Event Id^1*Purpose of Flight^1*Total Serious Injuries^1 + 0.000000007 * Event Id^1*Purpose of Flight^1*Total Minor Injuries^1 + -0.000000000 * Event Id^1*Purpose of Flight^1*Total Uninjured^1 + 0.000000223 * Event Id^1*Purpose of Flight^1*Weather Condition^1 + -0.000000030 * Event Id^1*Purpose of Flight^1*Broad Phase of Flight^1 + 0.000000000 * Event Id^1*Purpose of Flight^1*Report Publication Date^1 + 0.000000000 * Event Id^1*Purpose of Flight^1*Unnamed: 30^1 + 0.000000000 * Event Id^1*Air Carrier^2 + 0.000000000 * Event Id^1*Air Carrier^1*Total Fatal Injuries^1 + 0.000000000 * Event Id^1*Air Carrier^1*Total Serious Injuries^1 + -0.000000000 * Event Id^1*Air Carrier^1*Total Minor Injuries^1 + 0.000000000 * Event Id^1*Air Carrier^1*Total Uninjured^1 + -0.000000003 * Event Id^1*Air Carrier^1*Weather Condition^1 + 0.000000000 * Event Id^1*Air Carrier^1*Broad Phase of Flight^1 + -0.000000000 * Event Id^1*Air Carrier^1*Report Publication Date^1 + 0.000000000 * Event Id^1*Air Carrier^1*Unnamed: 30^1 + -0.000000006 * Event Id^1*Total Fatal Injuries^2 + 0.000000001 * Event Id^1*Total Fatal Injuries^1*Total Serious Injuries^1 + -0.000000012 * Event Id^1*Total Fatal Injuries^1*Total Minor Injuries^1 + -0.000000001 * Event Id^1*Total Fatal Injuries^1*Total Uninjured^1 + -0.000000029 * Event Id^1*Total Fatal Injuries^1*Weather Condition^1 + -0.000000006 * Event Id^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + -0.000000000 * Event Id^1*Total Fatal Injuries^1*Report Publication Date^1 + -0.000000000 * Event Id^1*Total Fatal Injuries^1*Unnamed: 30^1 + 0.000000073 * Event Id^1*Total Serious Injuries^2 + -0.000000002 * Event Id^1*Total Serious Injuries^1*Total Minor Injuries^1 + -0.000000008 * Event Id^1*Total Serious Injuries^1*Total Uninjured^1 + 0.000000104 * Event Id^1*Total Serious Injuries^1*Weather Condition^1 + 0.000000018 * Event Id^1*Total Serious Injuries^1*Broad Phase of Flight^1 + 0.000000000 * Event Id^1*Total Serious Injuries^1*Report Publication Date^1 + 0.000000000 * Event Id^1*Total Serious Injuries^1*Unnamed: 30^1 + -0.000000004 * Event Id^1*Total Minor Injuries^2 + 0.000000002 * Event Id^1*Total Minor Injuries^1*Total Uninjured^1 + 0.000000129 * Event Id^1*Total Minor Injuries^1*Weather Condition^1 + 0.000000003 * Event Id^1*Total Minor Injuries^1*Broad Phase of Flight^1 + 0.000000000 * Event Id^1*Total Minor Injuries^1*Report Publication Date^1 + -0.000000000 * Event Id^1*Total Minor Injuries^1*Unnamed: 30^1 + 0.000000000 * Event Id^1*Total Uninjured^2 + 0.000000011 * Event Id^1*Total Uninjured^1*Weather Condition^1 + 0.000000001 * Event Id^1*Total Uninjured^1*Report Publication Date^1 + -0.000000000 * Event Id^1*Total Uninjured^1*Unnamed: 30^1 + -0.000001083 * Event Id^1*Weather Condition^2 + 0.0000000146 * Event Id^1*Weather Condition^1*Broad Phase of Flight^1 + -0.000000001 * Event Id^1*Weather Condition^1*Report Publication Date^1 + -0.000000000 * Event Id^1*Weather Condition^1*Unnamed: 30^1 + 0.000000026 * Event Id^1*Broad Phase of Flight^2 + 0.000000000 * Event Id^1*Broad Phase of Flight^1*Report Publication Date^1 + 0.000000000 * Event Id^1*Broad Phase of Flight^1*Unnamed: 30^1 + 0.000000000 * Event Id^1*Report Publication Date^2 + 0.000000000 * Event Id^1*Report Publication Date^1*Unnamed: 30^1 + 0.000000000 * Event Id^1*Unnamed: 30^2 + -0.000543948 * Investigation Type^3 + 0.000001162 * Investigation Type^2*Accident Number^1 + 0.000042157 * Investigation Type^2*Event Date^1 + -0.000010600 * Investigation Type^2*Location^1 + 0.000650371 * Investigation Type^2*Country^1 + -0.000228629 * Investigation Type^2*Latitude^1 + 0.000006996 * Investigation Type^2*Longitude^1 + -0.000197592 * Investigation Type^2*Airport Code^1 + 0.000108000 * Investigation Type^2*Airport Name^1 + -

0.023908432 * Investigation Type^2*Injury Severity^1 + -0.000000639 * Investigation Type^2*Aircraft Category^1 + 0.000002635 * Investigation Type^2*Registration Number^1 + -0.000140659 * Investigation Type^2*Make^1 + 0.000036885 * Investigation Type^2*Model^1 + -0.000201618 * Investigation Type^2*Amateur Built^1 + -0.000105054 * Investigation Type^2*Number of Engines^1 + -0.000034316 * Investigation Type^2*Engine Type^1 + -0.000153747 * Investigation Type^2*FAR Description^1 + -0.000119111 * Investigation Type^2*Schedule^1 + 0.000077424 * Investigation Type^2*Purpose of Flight^1 + -0.000183292 * Investigation Type^2*Air Carrier^1 + -0.000245295 * Investigation Type^2*Total Fatal Injuries^1 + -0.000026959 * Investigation Type^2*Total Serious Injuries^1 + -0.000059516 * Investigation Type^2*Total Minor Injuries^1 + 0.004396004 * Investigation Type^2*Total Uninjured^1 + 0.000144914 * Investigation Type^2*Weather Condition^1 + 0.000046105 * Investigation Type^2*Broad Phase of Flight^1 + 0.000066891 * Investigation Type^2*Report Publication Date^1 + -0.000000000 * Investigation Type^2*Unnamed: 30^1 + 0.000000000 * Investigation Type^1*Accident Number^2 + 0.000000000 * Investigation Type^1*Accident Number^1*Event Date^1 + -0.000000000 * Investigation Type^1*Accident Number^1*Location^1 + -0.000000050 * Investigation Type^1*Accident Number^1*Country^1 + -0.000000001 * Investigation Type^1*Accident Number^1*Latitude^1 + 0.000000001 * Investigation Type^1*Accident Number^1*Longitude^1 + 0.000000000 * Investigation Type^1*Accident Number^1*Airport Code^1 + -0.000000000 * Investigation Type^1*Accident Number^1*Airport Name^1 + -0.000000017 * Investigation Type^1*Accident Number^1*Injury Severity^1 + 0.000001381 * Investigation Type^1*Accident Number^1*Aircraft Category^1 + -0.000000000 * Investigation Type^1*Accident Number^1*Registration Number^1 + -0.000000000 * Investigation Type^1*Accident Number^1*Make^1 + 0.000000000 * Investigation Type^1*Accident Number^1*Model^1 + -0.000001216 * Investigation Type^1*Accident Number^1*Amateur Built^1 + 0.000000289 * Investigation Type^1*Accident Number^1*Number of Engines^1 + 0.000000538 * Investigation Type^1*Accident Number^1*Engine Type^1 + -0.000000008 * Investigation Type^1*Accident Number^1*FAR Description^1 + -0.000000950 * Investigation Type^1*Accident Number^1*Schedule^1 + 0.000000055 * Investigation Type^1*Accident Number^1*Purpose of Flight^1 + -0.000000003 * Investigation Type^1*Accident Number^1*Air Carrier^1 + -0.000003186 * Investigation Type^1*Accident Number^1*Total Fatal Injuries^1 + 0.000002573 * Investigation Type^1*Accident Number^1*Total Serious Injuries^1 + 0.000000092 * Investigation Type^1*Accident Number^1*Total Minor Injuries^1 + 0.000000004 * Investigation Type^1*Accident Number^1*Total Uninjured^1 + -0.000001479 * Investigation Type^1*Accident Number^1*Weather Condition^1 + -0.000000152 * Investigation Type^1*Accident Number^1*Broad Phase of Flight^1 + -0.000000001 * Investigation Type^1*Accident Number^1*Report Publication Date^1 + -0.000000000 * Investigation Type^1*Accident Number^1*Unnamed: 30^1 + 0.000000000 * Investigation Type^1*Event Date^2 + -0.000000000 * Investigation Type^1*Event Date^1*Location^1 + -0.000000131 * Investigation Type^1*Event Date^1*Country^1 + 0.000000001 * Investigation Type^1*Event Date^1*Latitude^1 + 0.000000008 * Investigation Type^1*Event Date^1*Longitude^1 + -0.000000006 * Investigation Type^1*Event Date^1*Airport Code^1 + 0.000000003 * Investigation Type^1*Event Date^1*Airport Name^1 + -0.000000005 * Investigation Type^1*Event Date^1*Injury Severity^1 + 0.000011778 * Investigation Type^1*Event Date^1*Aircraft Category^1 + -0.000000000 * Investigation Type^1*Event Date^1*Registration Number^1 + -0.000000007 * Investigation Type^1*Event Date^1*Make^1 + 0.000000001 * Investigation Type^1*Event Date^1*Model^1 + 0.000055345 * Investigation Type^1*Event Date^1*Amateur Built^1 + 0.000001882 * Investigation Type^1*Event Date^1*Number

of Engines^1 + 0.000006367 * Investigation Type^1*Event Date^1*Engine Type^1 + 0.000001205 * Investigation Type^1*Event Date^1*FAR Description^1 + -0.000000825 * Investigation Type^1*Event Date^1*Schedule^1 + -0.000000771 * Investigation Type^1*Event Date^1*Purpose of Flight^1 + 0.000000004 * Investigation Type^1*Event Date^1*Air Carrier^1 + -0.000045685 * Investigation Type^1*Event Date^1*Total Fatal Injuries^1 + 0.000068227 * Investigation Type^1*Event Date^1*Total Serious Injuries^1 + 0.000002043 * Investigation Type^1*Event Date^1*Total Minor Injuries^1 + -0.000000089 * Investigation Type^1*Event Date^1*Total Uninjured^1 + -0.000020911 * Investigation Type^1*Event Date^1*Weather Condition^1 + -0.000001174 * Investigation Type^1*Event Date^1*Broad Phase of Flight^1 + 0.000000004 * Investigation Type^1*Event Date^1*Report Publication Date^1 + -0.000000000 * Investigation Type^1*Event Date^1*Unnamed: 30^1 + 0.000000000 * Investigation Type^1*Location^2 + 0.000000026 * Investigation Type^1*Location^1*Country^1 + 0.000000002 * Investigation Type^1*Location^1*Latitude^1 + 0.000000002 * Investigation Type^1*Location^1*Longitude^1 + 0.000000004 * Investigation Type^1*Location^1*Airport Code^1 + -0.000000001 * Investigation Type^1*Location^1*Airport Name^1 + 0.000000067 * Investigation Type^1*Location^1*Injury Severity^1 + -0.000021518 * Investigation Type^1*Location^1*Aircraft Category^1 + 0.000000000 * Investigation Type^1*Location^1*Registration Number^1 + -0.000000000 * Investigation Type^1*Location^1*Make^1 + 0.000000001 * Investigation Type^1*Location^1*Model^1 + 0.000004582 * Investigation Type^1*Location^1*Amateur Built^1 + 0.000002496 * Investigation Type^1*Location^1*Number of Engines^1 + -0.000001657 * Investigation Type^1*Location^1*Engine Type^1 + 0.000001667 * Investigation Type^1*Location^1*FAR Description^1 + 0.000003596 * Investigation Type^1*Location^1*Schedule^1 + 0.000000396 * Investigation Type^1*Location^1*Purpose of Flight^1 + 0.000000008 * Investigation Type^1*Location^1*Air Carrier^1 + -0.000049045 * Investigation Type^1*Location^1*Total Fatal Injuries^1 + 0.000030290 * Investigation Type^1*Location^1*Total Serious Injuries^1 + 0.000000595 * Investigation Type^1*Location^1*Total Minor Injuries^1 + 0.000000030 * Investigation Type^1*Location^1*Total Uninjured^1 + -0.000001382 * Investigation Type^1*Location^1*Weather Condition^1 + 0.000000212 * Investigation Type^1*Location^1*Broad Phase of Flight^1 + 0.000000000 * Investigation Type^1*Location^1*Report Publication Date^1 + 0.000000000 * Investigation Type^1*Location^1*Unnamed: 30^1 + -0.000024589 * Investigation Type^1*Country^2 + 0.000000928 * Investigation Type^1*Country^1*Latitude^1 + 0.000000894 * Investigation Type^1*Country^1*Longitude^1 + -0.000001067 * Investigation Type^1*Country^1*Airport Code^1 + -0.000000172 * Investigation Type^1*Country^1*Airport Name^1 + -0.000037103 * Investigation Type^1*Country^1*Injury Severity^1 + 0.004644832 * Investigation Type^1*Country^1*Aircraft Category^1 + -0.000000004 * Investigation Type^1*Country^1*Registration Number^1 + 0.000000245 * Investigation Type^1*Country^1*Make^1 + 0.000000197 * Investigation Type^1*Country^1*Model^1 + 0.001674254 * Investigation Type^1*Country^1*Amateur Built^1 + 0.002141084 * Investigation Type^1*Country^1*Number of Engines^1 + -0.000422623 * Investigation Type^1*Country^1*Engine Type^1 + -0.000017036 * Investigation Type^1*Country^1*FAR Description^1 + 0.002445244 * Investigation Type^1*Country^1*Schedule^1 + 0.000065708 * Investigation Type^1*Country^1*Purpose of Flight^1 + -0.000001258 * Investigation Type^1*Country^1*Air Carrier^1 + 0.001021134 * Investigation Type^1*Country^1*Total Fatal Injuries^1 + 0.001524671 * Investigation Type^1*Country^1*Total Serious Injuries^1 + -0.000134563 * Investigation Type^1*Country^1*Total Minor Injuries^1 + -0.000011871 * Investigation Type^1*Country^1*Total Uninjured^1 + -0.000532738

* Investigation Type^1*Country^1*Weather Condition^1 + 0.000082495 * Investigation
Type^1*Country^1*Broad Phase of Flight^1 + -0.000001606 * Investigation Type^1*Country^1*Report
Publication Date^1 + 0.000000000 * Investigation Type^1*Country^1*Unnamed: 30^1 + -0.000000016 *
Investigation Type^1*Latitude^2 + 0.000000017 * Investigation Type^1*Latitude^1*Longitude^1 +
0.000000002 * Investigation Type^1*Latitude^1*Airport Code^1 + 0.000000004 * Investigation
Type^1*Latitude^1*Airport Name^1 + 0.000006644 * Investigation Type^1*Latitude^1*Injury
Severity^1 + -0.000120952 * Investigation Type^1*Latitude^1*Aircraft Category^1 + 0.000000000 *
Investigation Type^1*Latitude^1*Registration Number^1 + 0.000000029 * Investigation
Type^1*Latitude^1*Make^1 + -0.000000017 * Investigation Type^1*Latitude^1*Model^1 +
0.000192499 * Investigation Type^1*Latitude^1*Amateur Built^1 + -0.000003901 * Investigation
Type^1*Latitude^1*Number of Engines^1 + -0.000024858 * Investigation Type^1*Latitude^1*Engine
Type^1 + 0.000004699 * Investigation Type^1*Latitude^1*FAR Description^1 + 0.000006211 *
Investigation Type^1*Latitude^1*Schedule^1 + -0.000004229 * Investigation
Type^1*Latitude^1*Purpose of Flight^1 + -0.000000015 * Investigation Type^1*Latitude^1*Air
Carrier^1 + 0.000078995 * Investigation Type^1*Latitude^1*Total Fatal Injuries^1 + -0.00527264 *
Investigation Type^1*Latitude^1*Total Serious Injuries^1 + 0.000016284 * Investigation
Type^1*Latitude^1*Total Minor Injuries^1 + -0.000000250 * Investigation Type^1*Latitude^1*Total
Uninjured^1 + 0.000025299 * Investigation Type^1*Latitude^1*Weather Condition^1 + 0.000004692 *
Investigation Type^1*Latitude^1*Broad Phase of Flight^1 + -0.000000070 * Investigation
Type^1*Latitude^1*Report Publication Date^1 + 0.000000000 * Investigation
Type^1*Latitude^1*Unnamed: 30^1 + -0.000000000 * Investigation Type^1*Longitude^2 +
0.000000014 * Investigation Type^1*Longitude^1*Airport Code^1 + 0.000000001 * Investigation
Type^1*Longitude^1*Airport Name^1 + 0.000001576 * Investigation Type^1*Longitude^1*Injury
Severity^1 + -0.000034155 * Investigation Type^1*Longitude^1*Aircraft Category^1 + 0.000000001 *
Investigation Type^1*Longitude^1*Registration Number^1 + -0.000000008 * Investigation
Type^1*Longitude^1*Make^1 + -0.000000003 * Investigation Type^1*Longitude^1*Model^1 + -
0.000047128 * Investigation Type^1*Longitude^1*Amateur Built^1 + -0.000016035 * Investigation
Type^1*Longitude^1*Number of Engines^1 + -0.000002295 * Investigation
Type^1*Longitude^1*Engine Type^1 + 0.000002420 * Investigation Type^1*Longitude^1*FAR
Description^1 + 0.000024756 * Investigation Type^1*Longitude^1*Schedule^1 + 0.000002958 *
Investigation Type^1*Longitude^1*Purpose of Flight^1 + -0.000000010 * Investigation
Type^1*Longitude^1*Air Carrier^1 + 0.000057040 * Investigation Type^1*Longitude^1*Total Fatal
Injuries^1 + 0.000182618 * Investigation Type^1*Longitude^1*Total Serious Injuries^1 + -0.000006387 *
Investigation Type^1*Longitude^1*Total Minor Injuries^1 + 0.000000316 * Investigation
Type^1*Longitude^1*Total Uninjured^1 + -0.000073060 * Investigation Type^1*Longitude^1*Weather
Condition^1 + -0.000004971 * Investigation Type^1*Longitude^1*Broad Phase of Flight^1 +
0.000000038 * Investigation Type^1*Longitude^1*Report Publication Date^1 + -0.000000000 *
Investigation Type^1*Longitude^1*Unnamed: 30^1 + -0.000000012 * Investigation Type^1*Airport
Code^2 + 0.000000000 * Investigation Type^1*Airport Code^1*Airport Name^1 + 0.000013161 *
Investigation Type^1*Airport Code^1*Injury Severity^1 + -0.000006166 * Investigation Type^1*Airport
Code^1*Aircraft Category^1 + -0.000000001 * Investigation Type^1*Airport Code^1*Registration
Number^1 + 0.000000001 * Investigation Type^1*Airport Code^1*Make^1 + 0.000000004 *
Investigation Type^1*Airport Code^1*Model^1 + -0.000578068 * Investigation Type^1*Airport
Code^1*Amateur Built^1 + 0.000002948 * Investigation Type^1*Airport Code^1*Number of Engines^1

+ 0.000003576 * Investigation Type^1*Airport Code^1*Engine Type^1 + 0.000000153 * Investigation Type^1*Airport Code^1*FAR Description^1 + 0.000025493 * Investigation Type^1*Airport Code^1*Schedule^1 + -0.000004395 * Investigation Type^1*Airport Code^1*Purpose of Flight^1 + -0.000000052 * Investigation Type^1*Airport Code^1*Air Carrier^1 + -0.000177500 * Investigation Type^1*Airport Code^1*Total Fatal Injuries^1 + 0.000166661 * Investigation Type^1*Airport Code^1*Total Serious Injuries^1 + 0.000000165 * Investigation Type^1*Airport Code^1*Total Minor Injuries^1 + -0.000000044 * Investigation Type^1*Airport Code^1*Total Uninjured^1 + -0.000027415 * Investigation Type^1*Airport Code^1*Weather Condition^1 + 0.000001633 * Investigation Type^1*Airport Code^1*Broad Phase of Flight^1 + 0.000000014 * Investigation Type^1*Airport Code^1*Report Publication Date^1 + 0.000000000 * Investigation Type^1*Airport Code^1*Unnamed: 30^1 + 0.000000001 * Investigation Type^1*Airport Name^2 + -0.000004973 * Investigation Type^1*Airport Name^1*Injury Severity^1 + 0.000049172 * Investigation Type^1*Airport Name^1*Aircraft Category^1 + -0.000000000 * Investigation Type^1*Airport Name^1*Registration Number^1 + 0.000000002 * Investigation Type^1*Airport Name^1*Make^1 + -0.000000004 * Investigation Type^1*Airport Name^1*Model^1 + 0.000177270 * Investigation Type^1*Airport Name^1*Amateur Built^1 + -0.000007930 * Investigation Type^1*Airport Name^1*Number of Engines^1 + 0.000002492 * Investigation Type^1*Airport Name^1*Engine Type^1 + -0.000003946 * Investigation Type^1*Airport Name^1*FAR Description^1 + -0.000034075 * Investigation Type^1*Airport Name^1*Schedule^1 + 0.000002206 * Investigation Type^1*Airport Name^1*Purpose of Flight^1 + -0.000000001 * Investigation Type^1*Airport Name^1*Air Carrier^1 + 0.000208210 * Investigation Type^1*Airport Name^1*Total Fatal Injuries^1 + -0.000164467 * Investigation Type^1*Airport Name^1*Total Serious Injuries^1 + -0.000000269 * Investigation Type^1*Airport Name^1*Total Minor Injuries^1 + -0.000000016 * Investigation Type^1*Airport Name^1*Total Uninjured^1 + 0.000002648 * Investigation Type^1*Airport Name^1*Weather Condition^1 + 0.000000122 * Investigation Type^1*Airport Name^1*Broad Phase of Flight^1 + -0.000000012 * Investigation Type^1*Airport Name^1*Report Publication Date^1 + 0.000000000 * Investigation Type^1*Airport Name^1*Unnamed: 30^1 + 0.000330754 * Investigation Type^1*Injury Severity^2 + 0.000070430 * Investigation Type^1*Injury Severity^1*Aircraft Category^1 + -0.000000014 * Investigation Type^1*Injury Severity^1*Registration Number^1 + 0.000001468 * Investigation Type^1*Injury Severity^1*Make^1 + -0.000000069 * Investigation Type^1*Injury Severity^1*Model^1 + -0.003603286 * Investigation Type^1*Injury Severity^1*Amateur Built^1 + -0.003613384 * Investigation Type^1*Injury Severity^1*Number of Engines^1 + -0.000026389 * Investigation Type^1*Injury Severity^1*Engine Type^1 + 0.000108724 * Investigation Type^1*Injury Severity^1*FAR Description^1 + -0.002106167 * Investigation Type^1*Injury Severity^1*Schedule^1 + 0.001352708 * Investigation Type^1*Injury Severity^1*Purpose of Flight^1 + 0.000007610 * Investigation Type^1*Injury Severity^1*Air Carrier^1 + -0.001572981 * Investigation Type^1*Injury Severity^1*Total Fatal Injuries^1 + 0.001652428 * Investigation Type^1*Injury Severity^1*Total Serious Injuries^1 + 0.000500160 * Investigation Type^1*Injury Severity^1*Total Minor Injuries^1 + -0.000094731 * Investigation Type^1*Injury Severity^1*Total Uninjured^1 + 0.002564102 * Investigation Type^1*Injury Severity^1*Weather Condition^1 + 0.000512998 * Investigation Type^1*Injury Severity^1*Broad Phase of Flight^1 + -0.000001072 * Investigation Type^1*Injury Severity^1*Report Publication Date^1 + 0.000000000 * Investigation Type^1*Injury Severity^1*Unnamed: 30^1 + -0.000139050 * Investigation Type^1*Aircraft Category^2 + 0.000000512 * Investigation Type^1*Aircraft Category^1*Registration Number^1 + -0.000044297 * Investigation Type^1*Aircraft Category^1*Make^1 + -0.000004749 *

Investigation Type^1*Aircraft Category^1*Model^1 + 0.000055486 * Investigation Type^1*Aircraft Category^1*Amateur Built^1 + 0.000120644 * Investigation Type^1*Aircraft Category^1*Number of Engines^1 + 0.000479307 * Investigation Type^1*Aircraft Category^1*Engine Type^1 + -0.000355389 * Investigation Type^1*Aircraft Category^1*FAR Description^1 + -0.000063971 * Investigation Type^1*Aircraft Category^1*Schedule^1 + 0.000800995 * Investigation Type^1*Aircraft Category^1*Purpose of Flight^1 + 0.000036382 * Investigation Type^1*Aircraft Category^1*Air Carrier^1 + -0.000397177 * Investigation Type^1*Aircraft Category^1*Total Fatal Injuries^1 + 0.000126928 * Investigation Type^1*Aircraft Category^1*Total Serious Injuries^1 + 0.000041699 * Investigation Type^1*Aircraft Category^1*Total Minor Injuries^1 + -0.000428024 * Investigation Type^1*Aircraft Category^1*Total Uninjured^1 + -0.000104547 * Investigation Type^1*Aircraft Category^1*Weather Condition^1 + -0.000311112 * Investigation Type^1*Aircraft Category^1*Broad Phase of Flight^1 + -0.000131551 * Investigation Type^1*Aircraft Category^1*Report Publication Date^1 + 0.000000000 * Investigation Type^1*Aircraft Category^1*Unnamed: 30^1 + -0.000000000 * Investigation Type^1*Registration Number^2 + -0.000000000 * Investigation Type^1*Registration Number^1*Make^1 + -0.000000000 * Investigation Type^1*Registration Number^1*Model^1 + 0.000000172 * Investigation Type^1*Registration Number^1*Amateur Built^1 + 0.000002163 * Investigation Type^1*Registration Number^1*Number of Engines^1 + -0.000000731 * Investigation Type^1*Registration Number^1*Engine Type^1 + -0.000000205 * Investigation Type^1*Registration Number^1*FAR Description^1 + 0.000000246 * Investigation Type^1*Registration Number^1*Schedule^1 + 0.000000146 * Investigation Type^1*Registration Number^1*Purpose of Flight^1 + -0.000000002 * Investigation Type^1*Registration Number^1*Air Carrier^1 + -0.000011304 * Investigation Type^1*Registration Number^1*Total Fatal Injuries^1 + 0.000017614 * Investigation Type^1*Registration Number^1*Total Serious Injuries^1 + -0.000000302 * Investigation Type^1*Registration Number^1*Total Minor Injuries^1 + -0.000000008 * Investigation Type^1*Registration Number^1*Total Uninjured^1 + -0.000000621 * Investigation Type^1*Registration Number^1*Weather Condition^1 + -0.000000108 * Investigation Type^1*Registration Number^1*Broad Phase of Flight^1 + 0.000000001 * Investigation Type^1*Registration Number^1*Report Publication Date^1 + -0.000000000 * Investigation Type^1*Registration Number^1*Unnamed: 30^1 + 0.000000006 * Investigation Type^1*Make^2 + 0.000000005 * Investigation Type^1*Make^1*Model^1 + 0.000038907 * Investigation Type^1*Make^1*Amateur Built^1 + 0.000001489 * Investigation Type^1*Make^1*Number of Engines^1 + -0.000009586 * Investigation Type^1*Make^1*Engine Type^1 + 0.000004519 * Investigation Type^1*Make^1*FAR Description^1 + 0.000025410 * Investigation Type^1*Make^1*Schedule^1 + 0.000000119 * Investigation Type^1*Make^1*Purpose of Flight^1 + 0.000000026 * Investigation Type^1*Make^1*Air Carrier^1 + 0.000111528 * Investigation Type^1*Make^1*Total Fatal Injuries^1 + -0.000088042 * Investigation Type^1*Make^1*Total Serious Injuries^1 + -0.000001151 * Investigation Type^1*Make^1*Total Minor Injuries^1 + 0.000000011 * Investigation Type^1*Make^1*Total Uninjured^1 + 0.000032063 * Investigation Type^1*Make^1*Weather Condition^1 + -0.000008640 * Investigation Type^1*Make^1*Broad Phase of Flight^1 + 0.000000017 * Investigation Type^1*Make^1*Report Publication Date^1 + 0.000000000 * Investigation Type^1*Make^1*Unnamed: 30^1 + -0.000000004 * Investigation Type^1*Model^2 + -0.000036995 * Investigation Type^1*Model^1*Amateur Built^1 + -0.000020483 * Investigation Type^1*Model^1*Number of Engines^1 + -0.000003860 * Investigation Type^1*Model^1*Engine Type^1 + 0.000000378 * Investigation Type^1*Model^1*FAR Description^1 + -0.000021121 * Investigation Type^1*Model^1*Schedule^1 + -0.000001262 * Investigation Type^1*Model^1*Purpose

of Flight^1 + 0.000000026 * Investigation Type^1*Model^1*Air Carrier^1 + -0.000165090 * Investigation Type^1*Model^1*Total Fatal Injuries^1 + 0.000105615 * Investigation Type^1*Model^1*Total Serious Injuries^1 + 0.000000761 * Investigation Type^1*Model^1*Total Minor Injuries^1 + 0.000000031 * Investigation Type^1*Model^1*Total Uninjured^1 + 0.000012324 * Investigation Type^1*Model^1*Weather Condition^1 + 0.000003624 * Investigation Type^1*Model^1*Broad Phase of Flight^1 + -0.000000029 * Investigation Type^1*Model^1*Report Publication Date^1 + 0.000000000 * Investigation Type^1*Model^1*Unnamed: 30^1 + -0.000121164 * Investigation Type^1*Amateur Built^2 + -0.000125428 * Investigation Type^1*Amateur Built^1*Number of Engines^1 + 0.000034510 * Investigation Type^1*Amateur Built^1*Engine Type^1 + 0.000238647 * Investigation Type^1*Amateur Built^1*FAR Description^1 + -0.000075253 * Investigation Type^1*Amateur Built^1*Schedule^1 + -0.000658796 * Investigation Type^1*Amateur Built^1*Purpose of Flight^1 + -0.000183616 * Investigation Type^1*Amateur Built^1*Air Carrier^1 + 0.000460537 * Investigation Type^1*Amateur Built^1*Total Fatal Injuries^1 + -0.000133920 * Investigation Type^1*Amateur Built^1*Total Serious Injuries^1 + 0.000195138 * Investigation Type^1*Amateur Built^1*Total Minor Injuries^1 + -0.001900918 * Investigation Type^1*Amateur Built^1*Total Uninjured^1 + -0.000004005 * Investigation Type^1*Amateur Built^1*Weather Condition^1 + -0.000147740 * Investigation Type^1*Amateur Built^1*Broad Phase of Flight^1 + -0.000148436 * Investigation Type^1*Amateur Built^1*Report Publication Date^1 + 0.000000000 * Investigation Type^1*Amateur Built^1*Unnamed: 30^1 + 0.001292736 * Investigation Type^1*Number of Engines^2 + 0.001049877 * Investigation Type^1*Number of Engines^1*Engine Type^1 + 0.001957367 * Investigation Type^1*Number of Engines^1*FAR Description^1 + 0.000288068 * Investigation Type^1*Number of Engines^1*Schedule^1 + 0.001469402 * Investigation Type^1*Number of Engines^1*Purpose of Flight^1 + 0.000151541 * Investigation Type^1*Number of Engines^1*Air Carrier^1 + 0.003021626 * Investigation Type^1*Number of Engines^1*Total Fatal Injuries^1 + -0.000334540 * Investigation Type^1*Number of Engines^1*Total Serious Injuries^1 + -0.003588536 * Investigation Type^1*Number of Engines^1*Total Minor Injuries^1 + -0.000059623 * Investigation Type^1*Number of Engines^1*Total Uninjured^1 + 0.000179881 * Investigation Type^1*Number of Engines^1*Weather Condition^1 + -0.000210407 * Investigation Type^1*Number of Engines^1*Broad Phase of Flight^1 + 0.000091914 * Investigation Type^1*Number of Engines^1*Report Publication Date^1 + 0.000000000 * Investigation Type^1*Number of Engines^1*Unnamed: 30^1 + 0.000818830 * Investigation Type^1*Engine Type^2 + 0.004542182 * Investigation Type^1*Engine Type^1*FAR Description^1 + 0.000642859 * Investigation Type^1*Engine Type^1*Schedule^1 + -0.002386151 * Investigation Type^1*Engine Type^1*Purpose of Flight^1 + -0.000054621 * Investigation Type^1*Engine Type^1*Air Carrier^1 + -0.000179970 * Investigation Type^1*Engine Type^1*Total Fatal Injuries^1 + -0.000894261 * Investigation Type^1*Engine Type^1*Total Serious Injuries^1 + 0.000170737 * Investigation Type^1*Engine Type^1*Total Minor Injuries^1 + 0.000226420 * Investigation Type^1*Engine Type^1*Total Uninjured^1 + 0.000754439 * Investigation Type^1*Engine Type^1*Weather Condition^1 + 0.002767442 * Investigation Type^1*Engine Type^1*Broad Phase of Flight^1 + -0.000004926 * Investigation Type^1*Engine Type^1*Report Publication Date^1 + -0.000000000 * Investigation Type^1*Engine Type^1*Unnamed: 30^1 + -0.001993393 * Investigation Type^1*FAR Description^2 + -0.001128019 * Investigation Type^1*FAR Description^1*Schedule^1 + 0.000196937 * Investigation Type^1*FAR Description^1*Purpose of Flight^1 + -0.000011677 * Investigation Type^1*FAR Description^1*Air Carrier^1 + 0.000499422 * Investigation Type^1*FAR Description^1*Total Fatal Injuries^1 + -0.000344442 * Investigation Type^1*FAR Description^1*Total

Serious Injuries^1 + 0.003154764 * Investigation Type^1*FAR Description^1*Total Minor Injuries^1 + 0.000037339 * Investigation Type^1*FAR Description^1*Total Uninjured^1 + -0.001679191 * Investigation Type^1*FAR Description^1*Weather Condition^1 + 0.000250075 * Investigation Type^1*FAR Description^1*Broad Phase of Flight^1 + 0.000009193 * Investigation Type^1*FAR Description^1*Report Publication Date^1 + -0.000000000 * Investigation Type^1*FAR Description^1*Unnamed: 30^1 + 0.000158401 * Investigation Type^1*Schedule^2 + 0.000063785 * Investigation Type^1*Schedule^1*Purpose of Flight^1 + -0.000071750 * Investigation Type^1*Schedule^1*Air Carrier^1 + 0.001045009 * Investigation Type^1*Schedule^1*Total Fatal Injuries^1 + -0.001156861 * Investigation Type^1*Schedule^1*Total Serious Injuries^1 + -0.000198161 * Investigation Type^1*Schedule^1*Total Minor Injuries^1 + -0.000280685 * Investigation Type^1*Schedule^1*Total Uninjured^1 + 0.000699660 * Investigation Type^1*Schedule^1*Weather Condition^1 + 0.000501595 * Investigation Type^1*Schedule^1*Broad Phase of Flight^1 + 0.000025940 * Investigation Type^1*Schedule^1*Report Publication Date^1 + -0.000000000 * Investigation Type^1*Schedule^1*Unnamed: 30^1 + -0.003507982 * Investigation Type^1*Purpose of Flight^2 + 0.000002295 * Investigation Type^1*Purpose of Flight^1*Air Carrier^1 + -0.002949329 * Investigation Type^1*Purpose of Flight^1*Total Fatal Injuries^1 + -0.001322623 * Investigation Type^1*Purpose of Flight^1*Total Serious Injuries^1 + 0.000618361 * Investigation Type^1*Purpose of Flight^1*Total Minor Injuries^1 + -0.000075782 * Investigation Type^1*Purpose of Flight^1*Total Uninjured^1 + -0.001111603 * Investigation Type^1*Purpose of Flight^1*Weather Condition^1 + -0.001962000 * Investigation Type^1*Purpose of Flight^1*Broad Phase of Flight^1 + -0.000005156 * Investigation Type^1*Purpose of Flight^1*Report Publication Date^1 + -0.000000000 * Investigation Type^1*Purpose of Flight^1*Unnamed: 30^1 + 0.000000138 * Investigation Type^1*Air Carrier^2 + 0.000217621 * Investigation Type^1*Air Carrier^1*Total Fatal Injuries^1 + -0.000574561 * Investigation Type^1*Air Carrier^1*Total Serious Injuries^1 + 0.000006654 * Investigation Type^1*Air Carrier^1*Total Minor Injuries^1 + 0.000000757 * Investigation Type^1*Air Carrier^1*Total Uninjured^1 + 0.000081855 * Investigation Type^1*Air Carrier^1*Weather Condition^1 + -0.000001613 * Investigation Type^1*Air Carrier^1*Broad Phase of Flight^1 + -0.000000011 * Investigation Type^1*Air Carrier^1*Report Publication Date^1 + -0.000000000 * Investigation Type^1*Air Carrier^1*Unnamed: 30^1 + 0.004180352 * Investigation Type^1*Total Fatal Injuries^2 + -0.002470113 * Investigation Type^1*Total Fatal Injuries^1*Total Serious Injuries^1 + -0.002423681 * Investigation Type^1*Total Fatal Injuries^1*Total Minor Injuries^1 + -0.001607463 * Investigation Type^1*Total Fatal Injuries^1*Total Uninjured^1 + -0.001257143 * Investigation Type^1*Total Fatal Injuries^1*Weather Condition^1 + -0.000840549 * Investigation Type^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + -0.000405210 * Investigation Type^1*Total Fatal Injuries^1*Report Publication Date^1 + -0.000000000 * Investigation Type^1*Total Fatal Injuries^1*Unnamed: 30^1 + 0.009031254 * Investigation Type^1*Total Serious Injuries^2 + 0.001403552 * Investigation Type^1*Total Serious Injuries^1*Total Minor Injuries^1 + 0.002265034 * Investigation Type^1*Total Serious Injuries^1*Total Uninjured^1 + 0.000464585 * Investigation Type^1*Total Serious Injuries^1*Weather Condition^1 + -0.003439350 * Investigation Type^1*Total Serious Injuries^1*Broad Phase of Flight^1 + 0.000359277 * Investigation Type^1*Total Serious Injuries^1*Report Publication Date^1 + -0.000000000 * Investigation Type^1*Total Serious Injuries^1*Unnamed: 30^1 + -0.000709619 * Investigation Type^1*Total Minor Injuries^2 + 0.000037113 * Investigation Type^1*Total Minor Injuries^1*Total Uninjured^1 + -0.000438757 * Investigation Type^1*Total Minor Injuries^1*Weather Condition^1 + -0.001195704 * Investigation Type^1*Total Minor Injuries^1*Broad Phase of Flight^1 + -0.000014487 * Investigation Type^1*Total

Date^1*Total Minor Injuries^1 + 0.000000000 * Accident Number^1*Event Date^1*Total Uninjured^1 + -0.000000000 * Accident Number^1*Event Date^1*Weather Condition^1 + 0.000000000 * Accident Number^1*Event Date^1*Broad Phase of Flight^1 + -0.000000000 * Accident Number^1*Event Date^1*Report Publication Date^1 + 0.000000000 * Accident Number^1*Event Date^1*Unnamed: 30^1 + 0.000000000 * Accident Number^1*Location^2 + -0.000000000 * Accident Number^1*Location^1*Country^1 + 0.000000000 * Accident Number^1*Location^1*Latitude^1 + -0.000000000 * Accident Number^1*Location^1*Longitude^1 + 0.000000000 * Accident Number^1*Location^1*Airport Code^1 + -0.000000000 * Accident Number^1*Location^1*Airport Name^1 + -0.000000000 * Accident Number^1*Location^1*Injury Severity^1 + -0.000000000 * Accident Number^1*Location^1*Aircraft Category^1 + -0.000000000 * Accident Number^1*Location^1*Registration Number^1 + 0.000000000 * Accident Number^1*Location^1*Make^1 + 0.000000000 * Accident Number^1*Location^1*Model^1 + 0.000000000 * Accident Number^1*Location^1*Amateur Built^1 + -0.000000000 * Accident Number^1*Location^1*Number of Engines^1 + -0.000000000 * Accident Number^1*Location^1*Engine Type^1 + -0.000000000 * Accident Number^1*Location^1*FAR Description^1 + 0.000000000 * Accident Number^1*Location^1*Schedule^1 + -0.000000000 * Accident Number^1*Location^1*Purpose of Flight^1 + -0.000000000 * Accident Number^1*Location^1*Air Carrier^1 + -0.000000000 * Accident Number^1*Location^1*Total Fatal Injuries^1 + -0.000000000 * Accident Number^1*Location^1*Total Serious Injuries^1 + -0.000000000 * Accident Number^1*Location^1*Total Minor Injuries^1 + -0.000000000 * Accident Number^1*Location^1*Total Uninjured^1 + 0.000000000 * Accident Number^1*Location^1*Weather Condition^1 + 0.000000000 * Accident Number^1*Location^1*Broad Phase of Flight^1 + -0.000000000 * Accident Number^1*Location^1*Report Publication Date^1 + -0.000000000 * Accident Number^1*Location^1*Unnamed: 30^1 + 0.000000000 * Accident Number^1*Country^2 + 0.000000000 * Accident Number^1*Country^1*Latitude^1 + 0.000000000 * Accident Number^1*Country^1*Longitude^1 + 0.000000000 * Accident Number^1*Country^1*Airport Code^1 + 0.000000000 * Accident Number^1*Country^1*Airport Name^1 + -0.000000000 * Accident Number^1*Country^1*Injury Severity^1 + -0.000000020 * Accident Number^1*Country^1*Aircraft Category^1 + 0.000000000 * Accident Number^1*Country^1*Registration Number^1 + -0.000000000 * Accident Number^1*Country^1*Make^1 + -0.000000000 * Accident Number^1*Country^1*Model^1 + 0.000000044 * Accident Number^1*Country^1*Amateur Built^1 + 0.000000019 * Accident Number^1*Country^1*Number of Engines^1 + -0.000000001 * Accident Number^1*Country^1*Engine Type^1 + -0.000000003 * Accident Number^1*Country^1*FAR Description^1 + 0.000000002 * Accident Number^1*Country^1*Schedule^1 + 0.000000002 * Accident Number^1*Country^1*Purpose of Flight^1 + -0.000000000 * Accident Number^1*Country^1*Air Carrier^1 + -0.000000000 * Accident Number^1*Country^1*Total Fatal Injuries^1 + 0.000000005 * Accident Number^1*Country^1*Total Serious Injuries^1 + -0.000000000 * Accident Number^1*Country^1*Total Minor Injuries^1 + 0.000000000 * Accident Number^1*Country^1*Total Uninjured^1 + -0.000000017 * Accident Number^1*Country^1*Weather Condition^1 + 0.000000001 * Accident Number^1*Country^1*Broad Phase of Flight^1 + -0.000000000 * Accident Number^1*Country^1*Report Publication Date^1 + -0.000000000 * Accident Number^1*Country^1*Unnamed: 30^1 + -0.000000000 * Accident Number^1*Latitude^2 + 0.000000000 * Accident Number^1*Latitude^1*Longitude^1 + -0.000000000 * Accident Number^1*Latitude^1*Airport Code^1 + -0.000000000 * Accident Number^1*Latitude^1*Airport Name^1 + -0.000000000 * Accident Number^1*Latitude^1*Injury Severity^1 + -0.000000000 * Accident Number^1*Latitude^1*Aircraft Category^1 + 0.000000000 *

Accident Number^1*Latitude^1*Registration Number^1 + 0.000000000 * Accident
Number^1*Latitude^1*Make^1 + -0.000000000 * Accident Number^1*Latitude^1*Model^1 +
0.000000000 * Accident Number^1*Latitude^1*Amateur Built^1 + 0.000000000 * Accident
Number^1*Latitude^1*Number of Engines^1 + -0.000000000 * Accident Number^1*Latitude^1*Engine
Type^1 + 0.000000000 * Accident Number^1*Latitude^1*FAR Description^1 + 0.000000000 * Accident
Number^1*Latitude^1*Schedule^1 + 0.000000000 * Accident Number^1*Latitude^1*Purpose of
Flight^1 + -0.000000000 * Accident Number^1*Latitude^1*Air Carrier^1 + 0.000000000 * Accident
Number^1*Latitude^1*Total Fatal Injuries^1 + 0.000000000 * Accident Number^1*Latitude^1*Total
Serious Injuries^1 + 0.000000000 * Accident Number^1*Latitude^1*Total Minor Injuries^1 + -
0.000000000 * Accident Number^1*Latitude^1*Total Uninjured^1 + 0.000000000 * Accident
Number^1*Latitude^1*Weather Condition^1 + 0.000000000 * Accident Number^1*Latitude^1*Broad
Phase of Flight^1 + -0.000000000 * Accident Number^1*Latitude^1*Report Publication Date^1 +
0.000000000 * Accident Number^1*Latitude^1*Unnamed: 30^1 + 0.000000000 * Accident
Number^1*Longitude^2 + -0.000000000 * Accident Number^1*Longitude^1*Airport Code^1 +
0.000000000 * Accident Number^1*Longitude^1*Airport Name^1 + -0.000000000 * Accident
Number^1*Longitude^1*Injury Severity^1 + 0.000000000 * Accident Number^1*Longitude^1*Aircraft
Category^1 + -0.000000000 * Accident Number^1*Longitude^1*Registration Number^1 + -0.000000000
* Accident Number^1*Longitude^1*Make^1 + -0.000000000 * Accident
Number^1*Longitude^1*Model^1 + 0.000000000 * Accident Number^1*Longitude^1*Amateur Built^1
+ -0.000000000 * Accident Number^1*Longitude^1*Number of Engines^1 + 0.000000000 * Accident
Number^1*Longitude^1*Engine Type^1 + -0.000000000 * Accident Number^1*Longitude^1*FAR
Description^1 + 0.000000000 * Accident Number^1*Longitude^1*Schedule^1 + 0.000000000 * Accident
Number^1*Longitude^1*Purpose of Flight^1 + 0.000000000 * Accident Number^1*Longitude^1*Air
Carrier^1 + -0.000000000 * Accident Number^1*Longitude^1*Total Fatal Injuries^1 + 0.000000000 *
Accident Number^1*Longitude^1*Total Serious Injuries^1 + 0.000000000 * Accident
Number^1*Longitude^1*Total Minor Injuries^1 + -0.000000000 * Accident
Number^1*Longitude^1*Total Uninjured^1 + 0.000000000 * Accident
Number^1*Longitude^1*Weather Condition^1 + 0.000000000 * Accident
Number^1*Longitude^1*Broad Phase of Flight^1 + 0.000000000 * Accident
Number^1*Longitude^1*Report Publication Date^1 + -0.000000000 * Accident
Number^1*Longitude^1*Unnamed: 30^1 + 0.000000000 * Accident Number^1*Airport Code^2 + -
0.000000000 * Accident Number^1*Airport Code^1*Airport Name^1 + 0.000000000 * Accident
Number^1*Airport Code^1*Injury Severity^1 + 0.000000000 * Accident Number^1*Airport
Code^1*Aircraft Category^1 + 0.000000000 * Accident Number^1*Airport Code^1*Registration
Number^1 + -0.000000000 * Accident Number^1*Airport Code^1*Make^1 + 0.000000000 * Accident
Number^1*Airport Code^1*Model^1 + 0.000000000 * Accident Number^1*Airport Code^1*Amateur
Built^1 + 0.000000000 * Accident Number^1*Airport Code^1*Number of Engines^1 + -0.000000000 *
Accident Number^1*Airport Code^1*Engine Type^1 + 0.000000000 * Accident Number^1*Airport
Code^1*FAR Description^1 + -0.000000000 * Accident Number^1*Airport Code^1*Schedule^1 +
0.000000000 * Accident Number^1*Airport Code^1*Purpose of Flight^1 + 0.000000000 * Accident
Number^1*Airport Code^1*Air Carrier^1 + -0.000000000 * Accident Number^1*Airport Code^1*Total
Fatal Injuries^1 + 0.000000000 * Accident Number^1*Airport Code^1*Total Serious Injuries^1 + -
0.000000000 * Accident Number^1*Airport Code^1*Total Minor Injuries^1 + -0.000000000 * Accident
Number^1*Airport Code^1*Total Uninjured^1 + 0.000000000 * Accident Number^1*Airport

Code^1*Weather Condition^1 + 0.000000000 * Accident Number^1*Airport Code^1*Broad Phase of Flight^1 + 0.000000000 * Accident Number^1*Airport Code^1*Report Publication Date^1 + 0.000000000 * Accident Number^1*Airport Name^2 + -0.000000000 * Accident Number^1*Airport Name^1*Injury Severity^1 + -0.000000000 * Accident Number^1*Airport Name^1*Aircraft Category^1 + 0.000000000 * Accident Number^1*Airport Name^1*Registration Number^1 + 0.000000000 * Accident Number^1*Airport Name^1*Make^1 + -0.000000000 * Accident Number^1*Airport Name^1*Model^1 + -0.000000000 * Accident Number^1*Airport Name^1*Amateur Built^1 + -0.000000000 * Accident Number^1*Airport Name^1*Number of Engines^1 + -0.000000000 * Accident Number^1*Airport Name^1*Engine Type^1 + 0.000000000 * Accident Number^1*Airport Name^1*FAR Description^1 + 0.000000000 * Accident Number^1*Airport Name^1*Schedule^1 + 0.000000000 * Accident Number^1*Airport Name^1*Purpose of Flight^1 + 0.000000000 * Accident Number^1*Airport Name^1*Air Carrier^1 + -0.000000000 * Accident Number^1*Airport Name^1*Total Fatal Injuries^1 + -0.000000000 * Accident Number^1*Airport Name^1*Total Serious Injuries^1 + 0.000000000 * Accident Number^1*Airport Name^1*Total Minor Injuries^1 + -0.000000000 * Accident Number^1*Airport Name^1*Total Uninjured^1 + -0.000000000 * Accident Number^1*Airport Name^1*Weather Condition^1 + -0.000000000 * Accident Number^1*Airport Name^1*Broad Phase of Flight^1 + -0.000000000 * Accident Number^1*Airport Name^1*Report Publication Date^1 + 0.000000000 * Accident Number^1*Airport Name^1*Unnamed: 30^1 + -0.000000000 * Accident Number^1*Injury Severity^2 + -0.000000008 * Accident Number^1*Injury Severity^1*Aircraft Category^1 + 0.000000000 * Accident Number^1*Injury Severity^1*Registration Number^1 + 0.000000000 * Accident Number^1*Injury Severity^1*Make^1 + -0.000000000 * Accident Number^1*Injury Severity^1*Model^1 + 0.000000000 * Accident Number^1*Injury Severity^1*Amateur Built^1 + -0.000000002 * Accident Number^1*Injury Severity^1*Number of Engines^1 + 0.000000000 * Accident Number^1*Injury Severity^1*Engine Type^1 + -0.000000000 * Accident Number^1*Injury Severity^1*FAR Description^1 + -0.000000002 * Accident Number^1*Injury Severity^1*Schedule^1 + 0.000000001 * Accident Number^1*Injury Severity^1*Purpose of Flight^1 + 0.000000000 * Accident Number^1*Injury Severity^1*Air Carrier^1 + -0.000000000 * Accident Number^1*Injury Severity^1*Total Fatal Injuries^1 + -0.000000000 * Accident Number^1*Injury Severity^1*Total Serious Injuries^1 + -0.000000001 * Accident Number^1*Injury Severity^1*Total Minor Injuries^1 + -0.000000000 * Accident Number^1*Injury Severity^1*Total Uninjured^1 + 0.000000007 * Accident Number^1*Injury Severity^1*Weather Condition^1 + -0.000000001 * Accident Number^1*Injury Severity^1*Broad Phase of Flight^1 + -0.000000000 * Accident Number^1*Injury Severity^1*Report Publication Date^1 + -0.000000000 * Accident Number^1*Injury Severity^1*Unnamed: 30^1 + -0.000000034 * Accident Number^1*Aircraft Category^2 + 0.000000000 * Accident Number^1*Aircraft Category^1*Registration Number^1 + -0.000000000 * Accident Number^1*Aircraft Category^1*Make^1 + -0.000000000 * Accident Number^1*Aircraft Category^1*Model^1 + 0.000000044 * Accident Number^1*Aircraft Category^1*Amateur Built^1 + -0.000000692 * Accident Number^1*Aircraft Category^1*Number of Engines^1 + -0.000000113 * Accident Number^1*Aircraft Category^1*Engine Type^1 + 0.000000323 * Accident Number^1*Aircraft Category^1*FAR Description^1 + 0.000000546 * Accident Number^1*Aircraft Category^1*Schedule^1 + 0.000000109 * Accident Number^1*Aircraft Category^1*Purpose of Flight^1 + -0.000000001 * Accident Number^1*Aircraft Category^1*Air Carrier^1 + 0.000000001 * Accident Number^1*Aircraft Category^1*Total Fatal Injuries^1 + -0.00000282 * Accident Number^1*Aircraft Category^1*Total Serious Injuries^1 + 0.000000066 *

Accident Number^1*Aircraft Category^1*Total Minor Injuries^1 + 0.000000003 * Accident
Number^1*Aircraft Category^1*Total Uninjured^1 + -0.000000366 * Accident Number^1*Aircraft
Category^1*Weather Condition^1 + -0.000000130 * Accident Number^1*Aircraft Category^1*Broad
Phase of Flight^1 + -0.000000000 * Accident Number^1*Aircraft Category^1*Report Publication Date^1
+ -0.000000000 * Accident Number^1*Aircraft Category^1*Unnamed: 30^1 + -0.000000000 * Accident
Number^1*Registration Number^2 + 0.000000000 * Accident Number^1*Registration
Number^1*Make^1 + -0.000000000 * Accident Number^1*Registration Number^1*Model^1 +
0.000000000 * Accident Number^1*Registration Number^1*Amateur Built^1 + -0.000000000 *
Accident Number^1*Registration Number^1*Number of Engines^1 + 0.000000000 * Accident
Number^1*Registration Number^1*Engine Type^1 + -0.000000000 * Accident Number^1*Registration
Number^1*FAR Description^1 + 0.000000000 * Accident Number^1*Registration
Number^1*Schedule^1 + 0.000000000 * Accident Number^1*Registration Number^1*Purpose of
Flight^1 + -0.000000000 * Accident Number^1*Registration Number^1*Air Carrier^1 + 0.000000000 *
Accident Number^1*Registration Number^1*Total Fatal Injuries^1 + 0.000000000 * Accident
Number^1*Registration Number^1*Total Serious Injuries^1 + 0.000000000 * Accident
Number^1*Registration Number^1*Total Minor Injuries^1 + 0.000000000 * Accident
Number^1*Registration Number^1*Total Uninjured^1 + 0.000000000 * Accident
Number^1*Registration Number^1*Weather Condition^1 + -0.000000000 * Accident
Number^1*Registration Number^1*Broad Phase of Flight^1 + -0.000000000 * Accident
Number^1*Registration Number^1*Report Publication Date^1 + -0.000000000 * Accident
Number^1*Registration Number^1*Unnamed: 30^1 + 0.000000000 * Accident Number^1*Make^2 +
0.000000000 * Accident Number^1*Make^1*Model^1 + 0.000000000 * Accident
Number^1*Make^1*Amateur Built^1 + 0.000000000 * Accident Number^1*Make^1*Number of
Engines^1 + -0.000000000 * Accident Number^1*Make^1*Engine Type^1 + 0.000000000 * Accident
Number^1*Make^1*FAR Description^1 + 0.000000000 * Accident Number^1*Make^1*Schedule^1 + -
0.000000000 * Accident Number^1*Make^1*Purpose of Flight^1 + 0.000000000 * Accident
Number^1*Make^1*Air Carrier^1 + 0.000000000 * Accident Number^1*Make^1*Total Fatal Injuries^1
+ -0.000000000 * Accident Number^1*Make^1*Total Serious Injuries^1 + 0.000000000 * Accident
Number^1*Make^1*Total Minor Injuries^1 + 0.000000000 * Accident Number^1*Make^1*Total
Uninjured^1 + 0.000000000 * Accident Number^1*Make^1*Weather Condition^1 + -0.000000000 *
Accident Number^1*Make^1*Broad Phase of Flight^1 + 0.000000000 * Accident
Number^1*Make^1*Report Publication Date^1 + 0.000000000 * Accident
Number^1*Make^1*Unnamed: 30^1 + -0.000000000 * Accident Number^1*Model^2 + -0.000000000 *
Accident Number^1*Model^1*Amateur Built^1 + -0.000000000 * Accident
Number^1*Model^1*Number of Engines^1 + -0.000000000 * Accident Number^1*Model^1*Engine
Type^1 + -0.000000000 * Accident Number^1*Model^1*FAR Description^1 + 0.000000000 * Accident
Number^1*Model^1*Schedule^1 + 0.000000000 * Accident Number^1*Model^1*Purpose of Flight^1 +
0.000000000 * Accident Number^1*Model^1*Air Carrier^1 + 0.000000000 * Accident
Number^1*Model^1*Total Fatal Injuries^1 + -0.000000000 * Accident Number^1*Model^1*Total
Serious Injuries^1 + 0.000000000 * Accident Number^1*Model^1*Total Minor Injuries^1 + 0.000000000
* Accident Number^1*Model^1*Total Uninjured^1 + 0.000000000 * Accident
Number^1*Model^1*Weather Condition^1 + -0.000000000 * Accident Number^1*Model^1*Broad
Phase of Flight^1 + 0.000000000 * Accident Number^1*Model^1*Report Publication Date^1 +
0.000000000 * Accident Number^1*Model^1*Unnamed: 30^1 + -0.000004807 * Accident

Number^1*Amateur Built^2 + 0.000002378 * Accident Number^1*Amateur Built^1*Number of Engines^1 + 0.000000156 * Accident Number^1*Amateur Built^1*Engine Type^1 + 0.000000080 * Accident Number^1*Amateur Built^1*FAR Description^1 + 0.000001215 * Accident Number^1*Amateur Built^1*Schedule^1 + -0.000000139 * Accident Number^1*Amateur Built^1*Purpose of Flight^1 + -0.000000038 * Accident Number^1*Amateur Built^1*Air Carrier^1 + 0.000000012 * Accident Number^1*Amateur Built^1*Total Fatal Injuries^1 + -0.000000023 * Accident Number^1*Amateur Built^1*Total Serious Injuries^1 + 0.000000060 * Accident Number^1*Amateur Built^1*Total Minor Injuries^1 + -0.000000026 * Accident Number^1*Amateur Built^1*Total Uninjured^1 + 0.000000046 * Accident Number^1*Amateur Built^1*Weather Condition^1 + 0.000000011 * Accident Number^1*Amateur Built^1*Broad Phase of Flight^1 + -0.000000001 * Accident Number^1*Amateur Built^1*Report Publication Date^1 + -0.000000000 * Accident Number^1*Amateur Built^1*Unnamed: 30^1 + 0.000000331 * Accident Number^1*Number of Engines^2 + 0.000000120 * Accident Number^1*Number of Engines^1*Engine Type^1 + 0.000000025 * Accident Number^1*Number of Engines^1*FAR Description^1 + -0.000000003 * Accident Number^1*Number of Engines^1*Schedule^1 + 0.000000025 * Accident Number^1*Number of Engines^1*Purpose of Flight^1 + 0.000000000 * Accident Number^1*Number of Engines^1*Air Carrier^1 + 0.000000043 * Accident Number^1*Number of Engines^1*Total Fatal Injuries^1 + -0.000000161 * Accident Number^1*Number of Engines^1*Total Serious Injuries^1 + 0.000000006 * Accident Number^1*Number of Engines^1*Total Minor Injuries^1 + 0.000000000 * Accident Number^1*Number of Engines^1*Total Uninjured^1 + 0.000000471 * Accident Number^1*Number of Engines^1*Weather Condition^1 + -0.000000042 * Accident Number^1*Number of Engines^1*Broad Phase of Flight^1 + -0.000000000 * Accident Number^1*Number of Engines^1*Report Publication Date^1 + 0.000000000 * Accident Number^1*Number of Engines^1*Unnamed: 30^1 + -0.000000041 * Accident Number^1*Engine Type^2 + 0.000000027 * Accident Number^1*Engine Type^1*FAR Description^1 + -0.000000113 * Accident Number^1*Engine Type^1*Schedule^1 + -0.000000003 * Accident Number^1*Engine Type^1*Purpose of Flight^1 + -0.000000000 * Accident Number^1*Engine Type^1*Air Carrier^1 + -0.000000010 * Accident Number^1*Engine Type^1*Total Fatal Injuries^1 + 0.000000001 * Accident Number^1*Engine Type^1*Total Serious Injuries^1 + -0.000000003 * Accident Number^1*Engine Type^1*Total Minor Injuries^1 + -0.000000001 * Accident Number^1*Engine Type^1*Total Uninjured^1 + -0.000000222 * Accident Number^1*Engine Type^1*Weather Condition^1 + 0.000000032 * Accident Number^1*Engine Type^1*Broad Phase of Flight^1 + 0.000000000 * Accident Number^1*Engine Type^1*Report Publication Date^1 + -0.000000000 * Accident Number^1*Engine Type^1*Unnamed: 30^1 + 0.000000018 * Accident Number^1*FAR Description^2 + 0.000000024 * Accident Number^1*FAR Description^1*Schedule^1 + -0.000000015 * Accident Number^1*FAR Description^1*Purpose of Flight^1 + 0.000000000 * Accident Number^1*FAR Description^1*Air Carrier^1 + 0.000000000 * Accident Number^1*FAR Description^1*Total Fatal Injuries^1 + 0.000000032 * Accident Number^1*FAR Description^1*Total Serious Injuries^1 + 0.000000008 * Accident Number^1*FAR Description^1*Total Minor Injuries^1 + -0.000000000 * Accident Number^1*FAR Description^1*Total Uninjured^1 + 0.000000029 * Accident Number^1*FAR Description^1*Weather Condition^1 + 0.000000010 * Accident Number^1*FAR Description^1*Broad Phase of Flight^1 + 0.000000000 * Accident Number^1*FAR Description^1*Report Publication Date^1 + 0.000000000 * Accident Number^1*FAR Description^1*Unnamed: 30^1 + -0.000000008 * Accident Number^1*Schedule^2 + 0.000000016 * Accident Number^1*Schedule^1*Purpose of Flight^1 + 0.000000001 * Accident Number^1*Schedule^1*Air Carrier^1 + 0.000000037 * Accident

Number^1*Schedule^1*Total Fatal Injuries^1 + 0.000000109 * Accident Number^1*Schedule^1*Total Serious Injuries^1 + 0.000000040 * Accident Number^1*Schedule^1*Total Minor Injuries^1 + 0.000000001 * Accident Number^1*Schedule^1*Total Uninjured^1 + -0.000000089 * Accident Number^1*Schedule^1*Weather Condition^1 + 0.000000120 * Accident Number^1*Schedule^1*Broad Phase of Flight^1 + 0.000000000 * Accident Number^1*Schedule^1*Report Publication Date^1 + -0.000000000 * Accident Number^1*Scheduled^1*Unnamed: 30^1 + 0.000000009 * Accident Number^1*Purpose of Flight^2 + 0.000000000 * Accident Number^1*Purpose of Flight^1*Air Carrier^1 + 0.000000000 * Accident Number^1*Purpose of Flight^1*Total Fatal Injuries^1 + -0.000000024 * Accident Number^1*Purpose of Flight^1*Total Serious Injuries^1 + 0.000000003 * Accident Number^1*Purpose of Flight^1*Total Minor Injuries^1 + -0.000000001 * Accident Number^1*Purpose of Flight^1*Total Uninjured^1 + -0.000000003 * Accident Number^1*Purpose of Flight^1*Weather Condition^1 + 0.000000002 * Accident Number^1*Purpose of Flight^1*Broad Phase of Flight^1 + 0.000000000 * Accident Number^1*Purpose of Flight^1*Report Publication Date^1 + -0.000000000 * Accident Number^1*Purpose of Flight^1*Unnamed: 30^1 + 0.000000000 * Accident Number^1*Air Carrier^2 + -0.000000000 * Accident Number^1*Air Carrier^1*Total Fatal Injuries^1 + -0.000000000 * Accident Number^1*Air Carrier^1*Total Serious Injuries^1 + -0.000000000 * Accident Number^1*Air Carrier^1*Total Minor Injuries^1 + 0.000000000 * Accident Number^1*Air Carrier^1*Total Uninjured^1 + -0.000000001 * Accident Number^1*Air Carrier^1*Weather Condition^1 + -0.000000000 * Accident Number^1*Air Carrier^1*Broad Phase of Flight^1 + -0.000000000 * Accident Number^1*Air Carrier^1*Report Publication Date^1 + -0.000000000 * Accident Number^1*Air Carrier^1*Unnamed: 30^1 + -0.000000000 * Accident Number^1*Total Fatal Injuries^1*Total Serious Injuries^1 + -0.000000004 * Accident Number^1*Total Fatal Injuries^1*Total Minor Injuries^1 + -0.000000000 * Accident Number^1*Total Fatal Injuries^1*Total Uninjured^1 + 0.000000016 * Accident Number^1*Total Fatal Injuries^1*Weather Condition^1 + -0.000000002 * Accident Number^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + -0.000000000 * Accident Number^1*Total Fatal Injuries^1*Report Publication Date^1 + 0.000000000 * Accident Number^1*Total Fatal Injuries^1*Unnamed: 30^1 + 0.000000027 * Accident Number^1*Total Serious Injuries^2 + -0.000000003 * Accident Number^1*Total Serious Injuries^1*Total Minor Injuries^1 + 0.000000000 * Accident Number^1*Total Serious Injuries^1*Total Uninjured^1 + -0.000000180 * Accident Number^1*Total Serious Injuries^1*Weather Condition^1 + -0.000000013 * Accident Number^1*Total Serious Injuries^1*Broad Phase of Flight^1 + -0.000000000 * Accident Number^1*Total Serious Injuries^1*Report Publication Date^1 + 0.000000000 * Accident Number^1*Total Serious Injuries^1*Unnamed: 30^1 + 0.000000001 * Accident Number^1*Total Minor Injuries^2 + -0.000000001 * Accident Number^1*Total Minor Injuries^1*Total Uninjured^1 + 0.000000048 * Accident Number^1*Total Minor Injuries^1*Weather Condition^1 + -0.000000008 * Accident Number^1*Total Minor Injuries^1*Broad Phase of Flight^1 + -0.000000000 * Accident Number^1*Total Minor Injuries^1*Report Publication Date^1 + -0.000000000 * Accident Number^1*Total Minor Injuries^1*Unnamed: 30^1 + -0.000000000 * Accident Number^1*Total Uninjured^2 + 0.000000003 * Accident Number^1*Total Uninjured^1*Weather Condition^1 + -0.000000001 * Accident Number^1*Total Uninjured^1*Broad Phase of Flight^1 + -0.000000000 * Accident Number^1*Total Uninjured^1*Report Publication Date^1 + -0.000000000 * Accident Number^1*Total Uninjured^1*Unnamed: 30^1 + 0.0000000814 * Accident Number^1*Weather Condition^2 + -0.000000099 * Accident Number^1*Weather Condition^1*Broad Phase of Flight^1 + -0.000000000 * Accident Number^1*Weather Condition^1*Report Publication Date^1 + -0.000000000 *

Accident Number^1*Weather Condition^1*Unnamed: 30^1 + -0.000000015 * Accident
Number^1*Broad Phase of Flight^2 + -0.000000000 * Accident Number^1*Broad Phase of
Flight^1*Report Publication Date^1 + -0.000000000 * Accident Number^1*Broad Phase of
Flight^1*Unnamed: 30^1 + -0.000000000 * Accident Number^1*Report Publication Date^2 +
0.000000000 * Accident Number^1*Report Publication Date^1*Unnamed: 30^1 + -0.000000000 *
Accident Number^1*Unnamed: 30^2 + 0.000000000 * Event Date^3 + 0.000000000 * Event
Date^2*Location^1 + -0.000000000 * Event Date^2*Country^1 + 0.000000000 * Event
Date^2*Latitude^1 + -0.000000000 * Event Date^2*Longitude^1 + -0.000000000 * Event
Date^2*Airport Code^1 + -0.000000000 * Event Date^2*Airport Name^1 + -0.000000000 * Event
Date^2*Injury Severity^1 + -0.000000000 * Event Date^2*Aircraft Category^1 + -0.000000000 * Event
Date^2*Registration Number^1 + -0.000000000 * Event Date^2*Make^1 + 0.000000000 * Event
Date^2*Model^1 + 0.000000000 * Event Date^2*Amateur Built^1 + -0.000000000 * Event
Date^2*Number of Engines^1 + -0.000000000 * Event Date^2*Engine Type^1 + -0.000000000 * Event
Date^2*FAR Description^1 + -0.000000000 * Event Date^2*Schedule^1 + 0.000000000 * Event
Date^2*Purpose of Flight^1 + 0.000000000 * Event Date^2*Air Carrier^1 + -0.000000000 * Event
Date^2*Total Fatal Injuries^1 + -0.000000000 * Event Date^2*Total Serious Injuries^1 + -0.000000000 *
Event Date^2*Total Minor Injuries^1 + 0.000000000 * Event Date^2*Total Uninjured^1 + -0.000000000
* Event Date^2*Weather Condition^1 + 0.000000000 * Event Date^2*Broad Phase of Flight^1 +
0.000000000 * Event Date^2*Report Publication Date^1 + -0.000000000 * Event Date^2*Unnamed:
30^1 + 0.000000000 * Event Date^1*Location^2 + -0.000000000 * Event Date^1*Location^1*Country^1
+ -0.000000000 * Event Date^1*Location^1*Latitude^1 + 0.000000000 * Event
Date^1*Location^1*Longitude^1 + 0.000000000 * Event Date^1*Location^1*Airport Code^1 +
0.000000000 * Event Date^1*Location^1*Airport Name^1 + 0.000000000 * Event
Date^1*Location^1*Injury Severity^1 + 0.000000000 * Event Date^1*Location^1*Aircraft Category^1 +
0.000000000 * Event Date^1*Location^1*Registration Number^1 + -0.000000000 * Event
Date^1*Location^1*Make^1 + 0.000000000 * Event Date^1*Location^1*Model^1 + -0.000000000 *
Event Date^1*Location^1*Amateur Built^1 + -0.000000000 * Event Date^1*Location^1*Number of
Engines^1 + 0.000000000 * Event Date^1*Location^1*Engine Type^1 + 0.000000000 * Event
Date^1*Location^1*FAR Description^1 + 0.000000000 * Event Date^1*Location^1*Schedule^1 + -
0.000000000 * Event Date^1*Location^1*Purpose of Flight^1 + -0.000000000 * Event
Date^1*Location^1*Air Carrier^1 + 0.000000000 * Event Date^1*Location^1*Total Fatal Injuries^1 + -
0.000000000 * Event Date^1*Location^1*Total Serious Injuries^1 + 0.000000000 * Event
Date^1*Location^1*Total Minor Injuries^1 + 0.000000000 * Event Date^1*Location^1*Total
Uninjured^1 + 0.000000000 * Event Date^1*Location^1*Weather Condition^1 + -0.000000000 * Event
Date^1*Location^1*Broad Phase of Flight^1 + -0.000000000 * Event Date^1*Location^1*Report
Publication Date^1 + 0.000000000 * Event Date^1*Location^1*Unnamed: 30^1 + -0.000000000 * Event
Date^1*Country^2 + 0.000000000 * Event Date^1*Country^1*Latitude^1 + -0.000000000 * Event
Date^1*Country^1*Longitude^1 + 0.000000000 * Event Date^1*Country^1*Airport Code^1 + -
0.000000000 * Event Date^1*Country^1*Airport Name^1 + -0.000000000 * Event
Date^1*Country^1*Injury Severity^1 + -0.000000024 * Event Date^1*Country^1*Aircraft Category^1 +
0.000000000 * Event Date^1*Country^1*Registration Number^1 + -0.000000000 * Event
Date^1*Country^1*Make^1 + -0.000000000 * Event Date^1*Country^1*Model^1 + 0.000000285 *
Event Date^1*Country^1*Amateur Built^1 + -0.000000034 * Event Date^1*Country^1*Number of
Engines^1 + -0.000000007 * Event Date^1*Country^1*Engine Type^1 + -0.000000010 * Event

Date^1*Country^1*FAR Description^1 + 0.000000030 * Event Date^1*Country^1*Schedule^1 + 0.000000003 * Event Date^1*Country^1*Purpose of Flight^1 + -0.000000000 * Event Date^1*Country^1*Air Carrier^1 + 0.000000001 * Event Date^1*Country^1*Total Fatal Injuries^1 + -0.000000017 * Event Date^1*Country^1*Total Serious Injuries^1 + 0.000000015 * Event Date^1*Country^1*Total Minor Injuries^1 + 0.000000001 * Event Date^1*Country^1*Total Uninjured^1 + 0.000000042 * Event Date^1*Country^1*Weather Condition^1 + -0.000000015 * Event Date^1*Country^1*Broad Phase of Flight^1 + -0.000000000 * Event Date^1*Country^1*Report Publication Date^1 + 0.000000000 * Event Date^1*Country^1*Unnamed: 30^1 + -0.000000000 * Event Date^1*Latitude^2 + 0.000000000 * Event Date^1*Latitude^1*Longitude^1 + -0.000000000 * Event Date^1*Latitude^1*Airport Code^1 + 0.000000000 * Event Date^1*Latitude^1*Airport Name^1 + 0.000000000 * Event Date^1*Latitude^1*Injury Severity^1 + 0.000000000 * Event Date^1*Latitude^1*Aircraft Category^1 + -0.000000000 * Event Date^1*Latitude^1*Registration Number^1 + 0.000000000 * Event Date^1*Latitude^1*Make^1 + -0.000000000 * Event Date^1*Latitude^1*Model^1 + 0.000000000 * Event Date^1*Latitude^1*Amateur Built^1 + 0.000000000 * Event Date^1*Latitude^1*Number of Engines^1 + -0.000000000 * Event Date^1*Latitude^1*Engine Type^1 + -0.000000000 * Event Date^1*Latitude^1*FAR Description^1 + -0.000000001 * Event Date^1*Latitude^1*Schedule^1 + -0.000000000 * Event Date^1*Latitude^1*Purpose of Flight^1 + -0.000000000 * Event Date^1*Latitude^1*Air Carrier^1 + -0.000000000 * Event Date^1*Latitude^1*Total Fatal Injuries^1 + -0.000000000 * Event Date^1*Latitude^1*Total Serious Injuries^1 + -0.000000000 * Event Date^1*Latitude^1*Total Minor Injuries^1 + 0.000000000 * Event Date^1*Latitude^1*Total Uninjured^1 + 0.000000001 * Event Date^1*Latitude^1*Weather Condition^1 + -0.000000000 * Event Date^1*Latitude^1*Broad Phase of Flight^1 + 0.000000000 * Event Date^1*Latitude^1*Report Publication Date^1 + -0.000000000 * Event Date^1*Latitude^1*Unnamed: 30^1 + -0.000000000 * Event Date^1*Longitude^2 + 0.000000000 * Event Date^1*Longitude^1*Airport Code^1 + -0.000000000 * Event Date^1*Longitude^1*Longitude^1*Airport Name^1 + 0.000000000 * Event Date^1*Longitude^1*Injury Severity^1 + 0.000000000 * Event Date^1*Longitude^1*Aircraft Category^1 + -0.000000000 * Event Date^1*Longitude^1*Registration Number^1 + -0.000000000 * Event Date^1*Longitude^1*Make^1 + 0.000000000 * Event Date^1*Longitude^1*Model^1 + -0.000000003 * Event Date^1*Longitude^1*Amateur Built^1 + -0.000000001 * Event Date^1*Longitude^1*Number of Engines^1 + -0.000000000 * Event Date^1*Longitude^1*Engine Type^1 + -0.000000000 * Event Date^1*Longitude^1*FAR Description^1 + -0.000000005 * Event Date^1*Longitude^1*Schedule^1 + -0.000000000 * Event Date^1*Longitude^1*Purpose of Flight^1 + 0.000000000 * Event Date^1*Longitude^1*Air Carrier^1 + -0.000000000 * Event Date^1*Longitude^1*Total Fatal Injuries^1 + 0.000000000 * Event Date^1*Longitude^1*Total Serious Injuries^1 + 0.000000000 * Event Date^1*Longitude^1*Total Minor Injuries^1 + 0.000000000 * Event Date^1*Longitude^1*Total Uninjured^1 + -0.000000001 * Event Date^1*Longitude^1*Weather Condition^1 + -0.000000000 * Event Date^1*Longitude^1*Broad Phase of Flight^1 + -0.000000000 * Event Date^1*Longitude^1*Report Publication Date^1 + -0.000000000 * Event Date^1*Longitude^1*Longitude^1*Airport Code^2 + 0.000000000 * Event Date^1*Longitude^1*Airport Name^1 + 0.000000000 * Event Date^1*Longitude^1*Injury Severity^1 + -0.000000003 * Event Date^1*Longitude^1*Aircraft Category^1 + -0.000000000 * Event Date^1*Longitude^1*Registration Number^1 + -0.000000000 * Event Date^1*Longitude^1*Make^1 + 0.000000000 * Event Date^1*Longitude^1*Model^1 + -0.000000001 * Event Date^1*Longitude^1*Amateur Built^1 + 0.000000001 * Event Date^1*Longitude^1*Airport Code^1*Amateur Built^1 + 0.000000001 * Event Date^1*Longitude^1*Airport

Code^1*Number of Engines^1 + 0.000000000 * Event Date^1*Airport Code^1*Engine Type^1 + 0.000000000 * Event Date^1*Airport Code^1*FAR Description^1 + -0.000000002 * Event Date^1*Airport Code^1*Schedule^1 + 0.000000000 * Event Date^1*Airport Code^1*Purpose of Flight^1 + 0.000000000 * Event Date^1*Airport Code^1*Air Carrier^1 + 0.000000000 * Event Date^1*Airport Code^1*Total Fatal Injuries^1 + 0.000000000 * Event Date^1*Airport Code^1*Total Serious Injuries^1 + -0.000000000 * Event Date^1*Airport Code^1*Total Minor Injuries^1 + -0.000000000 * Event Date^1*Airport Code^1*Total Uninjured^1 + -0.000000001 * Event Date^1*Airport Code^1*Weather Condition^1 + -0.000000000 * Event Date^1*Airport Code^1*Report Publication Date^1 + -0.000000000 * Event Date^1*Airport Code^1*Unnamed: 30^1 + -0.000000000 * Event Date^1*Airport Name^2 + -0.000000000 * Event Date^1*Airport Name^1*Injury Severity^1 + 0.000000001 * Event Date^1*Airport Name^1*Aircraft Category^1 + 0.000000000 * Event Date^1*Airport Name^1*Registration Number^1 + 0.000000000 * Event Date^1*Airport Name^1*Make^1 + -0.000000000 * Event Date^1*Airport Name^1*Model^1 + 0.000000000 * Event Date^1*Airport Name^1*Amateur Built^1 + -0.000000000 * Event Date^1*Airport Name^1*Number of Engines^1 + -0.000000000 * Event Date^1*Airport Name^1*Engine Type^1 + -0.000000000 * Event Date^1*Airport Name^1*FAR Description^1 + -0.000000000 * Event Date^1*Airport Name^1*Schedule^1 + -0.000000000 * Event Date^1*Airport Name^1*Purpose of Flight^1 + 0.000000000 * Event Date^1*Airport Name^1*Air Carrier^1 + -0.000000000 * Event Date^1*Airport Name^1*Total Fatal Injuries^1 + -0.000000000 * Event Date^1*Airport Name^1*Total Serious Injuries^1 + 0.000000000 * Event Date^1*Airport Name^1*Total Minor Injuries^1 + 0.000000000 * Event Date^1*Airport Name^1*Total Uninjured^1 + -0.000000000 * Event Date^1*Airport Name^1*Weather Condition^1 + -0.000000000 * Event Date^1*Airport Name^1*Broad Phase of Flight^1 + -0.000000000 * Event Date^1*Airport Name^1*Report Publication Date^1 + 0.000000000 * Event Date^1*Airport Name^1*Unnamed: 30^1 + 0.000000001 * Event Date^1*Injury Severity^2 + -0.000000016 * Event Date^1*Injury Severity^1*Aircraft Category^1 + 0.000000000 * Event Date^1*Injury Severity^1*Registration Number^1 + -0.000000000 * Event Date^1*Injury Severity^1*Make^1 + -0.000000000 * Event Date^1*Injury Severity^1*Model^1 + 0.000000117 * Event Date^1*Injury Severity^1*Amateur Built^1 + -0.000000043 * Event Date^1*Injury Severity^1*Number of Engines^1 + 0.000000037 * Event Date^1*Injury Severity^1*Engine Type^1 + 0.000000004 * Event Date^1*Injury Severity^1*FAR Description^1 + -0.000000038 * Event Date^1*Injury Severity^1*Schedule^1 + -0.000000012 * Event Date^1*Injury Severity^1*Purpose of Flight^1 + 0.000000000 * Event Date^1*Injury Severity^1*Air Carrier^1 + -0.000000001 * Event Date^1*Injury Severity^1*Total Fatal Injuries^1 + 0.000000033 * Event Date^1*Injury Severity^1*Total Serious Injuries^1 + 0.000000002 * Event Date^1*Injury Severity^1*Total Minor Injuries^1 + 0.000000002 * Event Date^1*Injury Severity^1*Total Uninjured^1 + 0.000000094 * Event Date^1*Injury Severity^1*Weather Condition^1 + 0.000000004 * Event Date^1*Injury Severity^1*Broad Phase of Flight^1 + -0.000000000 * Event Date^1*Injury Severity^1*Report Publication Date^1 + 0.000000000 * Event Date^1*Injury Severity^1*Unnamed: 30^1 + 0.000003567 * Event Date^1*Aircraft Category^2 + 0.000000000 * Event Date^1*Aircraft Category^1*Registration Number^1 + 0.000000000 * Event Date^1*Aircraft Category^1*Make^1 + -0.000000000 * Event Date^1*Aircraft Category^1*Model^1 + -0.000004945 * Event Date^1*Aircraft Category^1*Amateur Built^1 + 0.000001476 * Event Date^1*Aircraft Category^1*Number of Engines^1 + -0.000001617 * Event Date^1*Aircraft Category^1*Engine Type^1 + -0.000000309 * Event Date^1*Aircraft Category^1*FAR Description^1 + 0.000000620 * Event

Date^1*Aircraft Category^1*Schedule^1 + -0.000000294 * Event Date^1*Aircraft Category^1*Purpose of Flight^1 + 0.000000018 * Event Date^1*Aircraft Category^1*Air Carrier^1 + 0.000000437 * Event Date^1*Aircraft Category^1*Total Fatal Injuries^1 + -0.000001035 * Event Date^1*Aircraft Category^1*Total Serious Injuries^1 + -0.000000431 * Event Date^1*Aircraft Category^1*Total Minor Injuries^1 + 0.000000019 * Event Date^1*Aircraft Category^1*Total Uninjured^1 + 0.000005001 * Event Date^1*Aircraft Category^1*Weather Condition^1 + -0.000000267 * Event Date^1*Aircraft Category^1*Broad Phase of Flight^1 + -0.000000001 * Event Date^1*Aircraft Category^1*Report Publication Date^1 + -0.000000000 * Event Date^1*Aircraft Category^1*Unnamed: 30^1 + -0.000000000 * Event Date^1*Registration Number^2 + 0.000000000 * Event Date^1*Registration Number^1*Make^1 + -0.000000000 * Event Date^1*Registration Number^1*Model^1 + 0.000000000 * Event Date^1*Registration Number^1*Amateur Built^1 + -0.000000000 * Event Date^1*Registration Number^1*Number of Engines^1 + 0.000000000 * Event Date^1*Registration Number^1*Engine Type^1 + -0.000000000 * Event Date^1*Registration Number^1*FAR Description^1 + -0.000000000 * Event Date^1*Registration Number^1*Schedule^1 + 0.000000000 * Event Date^1*Registration Number^1*Purpose of Flight^1 + 0.000000000 * Event Date^1*Registration Number^1*Air Carrier^1 + 0.000000000 * Event Date^1*Registration Number^1*Total Fatal Injuries^1 + 0.000000000 * Event Date^1*Registration Number^1*Total Serious Injuries^1 + -0.000000000 * Event Date^1*Registration Number^1*Total Minor Injuries^1 + -0.000000000 * Event Date^1*Registration Number^1*Total Uninjured^1 + 0.000000000 * Event Date^1*Registration Number^1*Weather Condition^1 + -0.000000000 * Event Date^1*Registration Number^1*Broad Phase of Flight^1 + 0.000000000 * Event Date^1*Registration Number^1*Report Publication Date^1 + -0.000000000 * Event Date^1*Registration Number^1*Unnamed: 30^1 + -0.000000000 * Event Date^1*Make^2 + 0.000000000 * Event Date^1*Make^1*Model^1 + 0.000000001 * Event Date^1*Make^1*Number of Engines^1 + -0.000000000 * Event Date^1*Make^1*Engine Type^1 + -0.000000000 * Event Date^1*Make^1*FAR Description^1 + -0.000000000 * Event Date^1*Make^1*Schedule^1 + 0.000000000 * Event Date^1*Make^1*Purpose of Flight^1 + 0.000000000 * Event Date^1*Make^1*Air Carrier^1 + 0.000000000 * Event Date^1*Make^1*Total Fatal Injuries^1 + 0.000000000 * Event Date^1*Make^1*Total Serious Injuries^1 + -0.000000000 * Event Date^1*Make^1*Total Minor Injuries^1 + 0.000000000 * Event Date^1*Make^1*Total Uninjured^1 + 0.000000001 * Event Date^1*Make^1*Weather Condition^1 + 0.000000000 * Event Date^1*Make^1*Broad Phase of Flight^1 + -0.000000000 * Event Date^1*Make^1*Report Publication Date^1 + -0.000000000 * Event Date^1*Make^1*Unnamed: 30^1 + -0.000000000 * Event Date^1*Model^2 + 0.000000000 * Event Date^1*Model^1*Amateur Built^1 + -0.000000001 * Event Date^1*Model^1*Number of Engines^1 + -0.000000000 * Event Date^1*Model^1*Engine Type^1 + 0.000000000 * Event Date^1*Model^1*FAR Description^1 + -0.000000000 * Event Date^1*Model^1*Schedule^1 + -0.000000000 * Event Date^1*Model^1*Purpose of Flight^1 + 0.000000000 * Event Date^1*Model^1*Air Carrier^1 + -0.000000000 * Event Date^1*Model^1*Total Fatal Injuries^1 + -0.000000000 * Event Date^1*Model^1*Total Serious Injuries^1 + -0.000000000 * Event Date^1*Model^1*Total Minor Injuries^1 + 0.000000000 * Event Date^1*Model^1*Total Uninjured^1 + -0.000000000 * Event Date^1*Model^1*Weather Condition^1 + 0.000000000 * Event Date^1*Model^1*Broad Phase of Flight^1 + 0.000000000 * Event Date^1*Model^1*Report Publication Date^1 + -0.000000000 * Event Date^1*Model^1*Unnamed: 30^1 + -0.000003116 * Event Date^1*Amateur Built^2 + 0.000013676 * Event Date^1*Amateur Built^1*Number of Engines^1 + -0.000003153 * Event Date^1*Amateur Built^1*Engine Type^1 + 0.000001492 * Event Date^1*Amateur

Built^1*FAR Description^1 + 0.000006544 * Event Date^1*Amateur Built^1*Schedule^1 + -0.000000932 * Event Date^1*Amateur Built^1*Purpose of Flight^1 + 0.000000176 * Event Date^1*Amateur Built^1*Air Carrier^1 + 0.000000208 * Event Date^1*Amateur Built^1*Total Fatal Injuries^1 + -0.000001999 * Event Date^1*Amateur Built^1*Total Serious Injuries^1 + -0.000000300 * Event Date^1*Amateur Built^1*Total Minor Injuries^1 + 0.000000005 * Event Date^1*Amateur Built^1*Total Uninjured^1 + -0.000012500 * Event Date^1*Amateur Built^1*Weather Condition^1 + -0.000000236 * Event Date^1*Amateur Built^1*Broad Phase of Flight^1 + 0.000000002 * Event Date^1*Amateur Built^1*Report Publication Date^1 + 0.000000000 * Event Date^1*Amateur Built^1*Unnamed: 30^1 + 0.000001118 * Event Date^1*Number of Engines^2 + -0.000001967 * Event Date^1*Number of Engines^1*Engine Type^1 + -0.000000237 * Event Date^1*Number of Engines^1*FAR Description^1 + 0.000004063 * Event Date^1*Number of Engines^1*Schedule^1 + -0.000000121 * Event Date^1*Number of Engines^1*Purpose of Flight^1 + -0.000000010 * Event Date^1*Number of Engines^1*Air Carrier^1 + 0.000000013 * Event Date^1*Number of Engines^1*Total Fatal Injuries^1 + -0.000000450 * Event Date^1*Number of Engines^1*Total Serious Injuries^1 + 0.000000257 * Event Date^1*Number of Engines^1*Total Minor Injuries^1 + 0.000000059 * Event Date^1*Number of Engines^1*Total Uninjured^1 + 0.000001773 * Event Date^1*Number of Engines^1*Weather Condition^1 + -0.000000070 * Event Date^1*Number of Engines^1*Broad Phase of Flight^1 + 0.000000004 * Event Date^1*Number of Engines^1*Report Publication Date^1 + 0.000000000 * Event Date^1*Number of Engines^1*Unnamed: 30^1 + 0.000000185 * Event Date^1*Engine Type^2 + 0.000000502 * Event Date^1*Engine Type^1*FAR Description^1 + -0.000000149 * Event Date^1*Engine Type^1*Schedule^1 + -0.000000103 * Event Date^1*Engine Type^1*Purpose of Flight^1 + -0.000000001 * Event Date^1*Engine Type^1*Air Carrier^1 + -0.000000019 * Event Date^1*Engine Type^1*Total Fatal Injuries^1 + 0.000000269 * Event Date^1*Engine Type^1*Total Serious Injuries^1 + -0.000000371 * Event Date^1*Engine Type^1*Total Minor Injuries^1 + -0.000000008 * Event Date^1*Engine Type^1*Total Uninjured^1 + 0.000000408 * Event Date^1*Engine Type^1*Weather Condition^1 + -0.000000013 * Event Date^1*Engine Type^1*Broad Phase of Flight^1 + -0.000000000 * Event Date^1*Engine Type^1*Report Publication Date^1 + 0.000000000 * Event Date^1*Engine Type^1*Unnamed: 30^1 + 0.000000128 * Event Date^1*FAR Description^2 + -0.000000479 * Event Date^1*FAR Description^1*Schedule^1 + -0.000000040 * Event Date^1*FAR Description^1*Purpose of Flight^1 + -0.000000001 * Event Date^1*FAR Description^1*Air Carrier^1 + -0.000000046 * Event Date^1*FAR Description^1*Total Fatal Injuries^1 + 0.000000048 * Event Date^1*FAR Description^1*Total Serious Injuries^1 + 0.000000076 * Event Date^1*FAR Description^1*Total Minor Injuries^1 + -0.000000002 * Event Date^1*FAR Description^1*Total Uninjured^1 + -0.000000059 * Event Date^1*FAR Description^1*Weather Condition^1 + -0.000000009 * Event Date^1*FAR Description^1*Broad Phase of Flight^1 + 0.000000000 * Event Date^1*FAR Description^1*Report Publication Date^1 + 0.000000000 * Event Date^1*FAR Description^1*Unnamed: 30^1 + 0.000002394 * Event Date^1*Schedule^2 + -0.000000453 * Event Date^1*Schedule^1*Purpose of Flight^1 + 0.000000029 * Event Date^1*Schedule^1*Air Carrier^1 + -0.000000013 * Event Date^1*Schedule^1*Total Fatal Injuries^1 + 0.000001305 * Event Date^1*Schedule^1*Total Serious Injuries^1 + 0.000000126 * Event Date^1*Schedule^1*Total Minor Injuries^1 + 0.000000059 * Event Date^1*Schedule^1*Total Uninjured^1 + -0.000000479 * Event Date^1*Schedule^1*Weather Condition^1 + -0.000000291 * Event Date^1*Schedule^1*Broad Phase of Flight^1 + -0.000000003 * Event Date^1*Schedule^1*Report Publication Date^1 + 0.000000000 * Event Date^1*Schedule^1*Unnamed: 30^1 + 0.000000058 * Event Date^1*Purpose of Flight^2 + 0.000000001

* Event Date^1*Purpose of Flight^1*Air Carrier^1 + -0.000000021 * Event Date^1*Purpose of Flight^1*Total Fatal Injuries^1 + 0.000000070 * Event Date^1*Purpose of Flight^1*Total Serious Injuries^1 + -0.000000003 * Event Date^1*Purpose of Flight^1*Total Minor Injuries^1 + 0.000000001 * Event Date^1*Purpose of Flight^1*Total Uninjured^1 + 0.000000261 * Event Date^1*Purpose of Flight^1*Weather Condition^1 + -0.000000005 * Event Date^1*Purpose of Flight^1*Broad Phase of Flight^1 + -0.000000000 * Event Date^1*Purpose of Flight^1*Report Publication Date^1 + 0.000000000 * Event Date^1*Purpose of Flight^1*Unnamed: 30^1 + -0.000000000 * Event Date^1*Air Carrier^2 + 0.000000000 * Event Date^1*Air Carrier^1*Total Fatal Injuries^1 + 0.000000000 * Event Date^1*Air Carrier^1*Total Serious Injuries^1 + 0.000000000 * Event Date^1*Air Carrier^1*Total Minor Injuries^1 + -0.000000000 * Event Date^1*Air Carrier^1*Total Uninjured^1 + -0.000000005 * Event Date^1*Air Carrier^1*Weather Condition^1 + 0.000000002 * Event Date^1*Air Carrier^1*Broad Phase of Flight^1 + 0.000000000 * Event Date^1*Air Carrier^1*Report Publication Date^1 + 0.000000000 * Event Date^1*Air Carrier^1*Unnamed: 30^1 + 0.000000003 * Event Date^1*Total Fatal Injuries^2 + -0.000000006 * Event Date^1*Total Fatal Injuries^1*Total Serious Injuries^1 + 0.000000050 * Event Date^1*Total Fatal Injuries^1*Total Minor Injuries^1 + -0.000000004 * Event Date^1*Total Fatal Injuries^1*Total Uninjured^1 + 0.000000025 * Event Date^1*Total Fatal Injuries^1*Weather Condition^1 + -0.000000020 * Event Date^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + 0.000000000 * Event Date^1*Total Fatal Injuries^1*Report Publication Date^1 + 0.000000000 * Event Date^1*Total Fatal Injuries^1*Unnamed: 30^1 + 0.000000019 * Event Date^1*Total Serious Injuries^2 + 0.000000027 * Event Date^1*Total Serious Injuries^1*Total Minor Injuries^1 + -0.000000036 * Event Date^1*Total Serious Injuries^1*Total Uninjured^1 + 0.000000131 * Event Date^1*Total Serious Injuries^1*Weather Condition^1 + -0.000000057 * Event Date^1*Total Serious Injuries^1*Broad Phase of Flight^1 + 0.000000001 * Event Date^1*Total Serious Injuries^1*Report Publication Date^1 + -0.000000000 * Event Date^1*Total Serious Injuries^1*Unnamed: 30^1 + 0.000000052 * Event Date^1*Total Minor Injuries^2 + -0.000000004 * Event Date^1*Total Minor Injuries^1*Total Uninjured^1 + -0.000000071 * Event Date^1*Total Minor Injuries^1*Weather Condition^1 + 0.000000216 * Event Date^1*Total Minor Injuries^1*Broad Phase of Flight^1 + 0.000000000 * Event Date^1*Total Minor Injuries^1*Report Publication Date^1 + -0.000000000 * Event Date^1*Total Minor Injuries^1*Unnamed: 30^1 + -0.000000000 * Event Date^1*Total Uninjured^2 + -0.000000057 * Event Date^1*Total Uninjured^1*Weather Condition^1 + -0.000000004 * Event Date^1*Total Uninjured^1*Broad Phase of Flight^1 + 0.000000000 * Event Date^1*Total Uninjured^1*Report Publication Date^1 + -0.000000000 * Event Date^1*Total Uninjured^1*Unnamed: 30^1 + -0.000002798 * Event Date^1*Weather Condition^2 + -0.000000290 * Event Date^1*Weather Condition^1*Broad Phase of Flight^1 + -0.000000001 * Event Date^1*Weather Condition^1*Report Publication Date^1 + -0.000000000 * Event Date^1*Weather Condition^1*Unnamed: 30^1 + 0.000000018 * Event Date^1*Broad Phase of Flight^2 + 0.000000000 * Event Date^1*Broad Phase of Flight^1*Report Publication Date^1 + -0.000000000 * Event Date^1*Broad Phase of Flight^1*Unnamed: 30^1 + -0.000000000 * Event Date^1*Report Publication Date^2 + -0.000000000 * Event Date^1*Report Publication Date^1*Unnamed: 30^1 + 0.000000000 * Event Date^1*Unnamed: 30^2 + 0.000000000 * Location^3 + 0.000000000 * Location^2*Country^1 + -0.000000000 * Location^2*Latitude^1 + 0.000000000 * Location^2*Longitude^1 + 0.000000000 * Location^2*Airport Code^1 + -0.000000000 * Location^2*Airport Name^1 + -0.000000000 * Location^2*Injury Severity^1 + -0.000000000 * Location^2*Aircraft Category^1 + 0.000000000 * Location^2*Registration Number^1 + -0.000000000 * Location^2*Make^1 + -0.000000000 * Location^2*Model^1 + 0.000000000 * Location^2*Amateur

Built^1 + -0.000000000 * Location^2*Number of Engines^1 + -0.000000000 * Location^2*Engine Type^1 + -0.000000000 * Location^2*FAR Description^1 + 0.000000000 * Location^2*Schedule^1 + 0.000000000 * Location^2*Purpose of Flight^1 + -0.000000000 * Location^2*Air Carrier^1 + -0.000000000 * Location^2*Total Fatal Injuries^1 + -0.000000000 * Location^2*Total Serious Injuries^1 + 0.000000000 * Location^2*Total Minor Injuries^1 + 0.000000000 * Location^2*Total Uninjured^1 + -0.000000000 * Location^2*Weather Condition^1 + -0.000000000 * Location^2*Broad Phase of Flight^1 + -0.000000000 * Location^2*Report Publication Date^1 + 0.000000000 * Location^2*Unnamed: 30^1 + -0.000000000 * Location^1*Country^2 + 0.000000000 * Location^1*Country^1*Latitude^1 + -0.000000000 * Location^1*Country^1*Longitude^1 + 0.000000000 * Location^1*Country^1*Airport Code^1 + -0.000000000 * Location^1*Country^1*Airport Name^1 + -0.000000000 * Location^1*Country^1*Injury Severity^1 + -0.000000052 * Location^1*Country^1*Aircraft Category^1 + -0.000000000 * Location^1*Country^1*Registration Number^1 + -0.000000000 * Location^1*Country^1*Make^1 + 0.000000000 * Location^1*Country^1*Model^1 + -0.000000120 * Location^1*Country^1*Amateur Built^1 + 0.000000017 * Location^1*Country^1*Number of Engines^1 + 0.000000017 * Location^1*Country^1*Engine Type^1 + 0.000000013 * Location^1*Country^1*FAR Description^1 + -0.000000037 * Location^1*Country^1*Schedule^1 + -0.000000006 * Location^1*Country^1*Purpose of Flight^1 + 0.000000000 * Location^1*Country^1*Air Carrier^1 + -0.000000001 * Location^1*Country^1*Total Fatal Injuries^1 + 0.000000023 * Location^1*Country^1*Total Serious Injuries^1 + -0.000000002 * Location^1*Country^1*Total Minor Injuries^1 + -0.000000000 * Location^1*Country^1*Total Uninjured^1 + 0.000000051 * Location^1*Country^1*Weather Condition^1 + -0.000000000 * Location^1*Country^1*Broad Phase of Flight^1 + 0.000000000 * Location^1*Country^1*Report Publication Date^1 + 0.000000000 * Location^1*Country^1*Unnamed: 30^1 + 0.000000000 * Location^1*Latitude^2 + -0.000000000 * Location^1*Latitude^1*Longitude^1 + -0.000000000 * Location^1*Latitude^1*Airport Code^1 + 0.000000000 * Location^1*Latitude^1*Airport Name^1 + -0.000000000 * Location^1*Latitude^1*Injury Severity^1 + 0.000000000 * Location^1*Latitude^1*Aircraft Category^1 + 0.000000000 * Location^1*Latitude^1*Registration Number^1 + -0.000000000 * Location^1*Latitude^1*Make^1 + 0.000000000 * Location^1*Latitude^1*Model^1 + -0.000000000 * Location^1*Latitude^1*Amateur Built^1 + 0.000000000 * Location^1*Latitude^1*Number of Engines^1 + -0.000000000 * Location^1*Latitude^1*Engine Type^1 + 0.000000000 * Location^1*Latitude^1*FAR Description^1 + 0.000000001 * Location^1*Latitude^1*Schedule^1 + 0.000000000 * Location^1*Latitude^1*Purpose of Flight^1 + 0.000000000 * Location^1*Latitude^1*Air Carrier^1 + -0.000000000 * Location^1*Latitude^1*Total Fatal Injuries^1 + 0.000000000 * Location^1*Latitude^1*Total Serious Injuries^1 + 0.000000000 * Location^1*Latitude^1*Total Minor Injuries^1 + 0.000000000 * Location^1*Latitude^1*Total Uninjured^1 + 0.000000000 * Location^1*Latitude^1*Weather Condition^1 + 0.000000000 * Location^1*Latitude^1*Broad Phase of Flight^1 + 0.000000000 * Location^1*Latitude^1*Report Publication Date^1 + 0.000000000 * Location^1*Latitude^1*Unnamed: 30^1 + -0.000000000 * Location^1*Longitude^2 + -0.000000000 * Location^1*Longitude^1*Latitude^1 + 0.000000000 * Location^1*Longitude^1*Airport Code^1 + 0.000000000 * Location^1*Longitude^1*Airport Name^1 + 0.000000000 * Location^1*Longitude^1*Injury Severity^1 + 0.000000000 * Location^1*Longitude^1*Aircraft Category^1 + 0.000000000 * Location^1*Longitude^1*Registration Number^1 + -0.000000000 * Location^1*Longitude^1*Make^1 + 0.000000000 * Location^1*Longitude^1*Model^1 + 0.000000000 * Location^1*Longitude^1*Amateur Built^1 + 0.000000000 * Location^1*Longitude^1*Number of Engines^1 + 0.000000000 * Location^1*Longitude^1*Engine Type^1 + -0.000000000 *

Location^1*Longitude^1*FAR Description^1 + -0.000000001 * Location^1*Longitude^1*Schedule^1 + -0.000000000 * Location^1*Longitude^1*Purpose of Flight^1 + -0.000000000 *

Location^1*Longitude^1*Air Carrier^1 + 0.000000000 * Location^1*Longitude^1*Total Fatal Injuries^1 + 0.000000000 * Location^1*Longitude^1*Total Serious Injuries^1 + -0.000000000 *

Location^1*Longitude^1*Total Minor Injuries^1 + 0.000000000 * Location^1*Longitude^1*Total Uninjured^1 + 0.000000000 * Location^1*Longitude^1*Weather Condition^1 + -0.000000000 *

Location^1*Longitude^1*Broad Phase of Flight^1 + 0.000000000 * Location^1*Longitude^1*Report Publication Date^1 + 0.000000000 * Location^1*Longitude^1*Unnamed: 30^1 + 0.000000000 *

Location^1*Airport Code^2 + 0.000000000 * Location^1*Airport Code^1*Airport Name^1 + 0.000000000 * Location^1*Airport Code^1*Injury Severity^1 + -0.000000000 * Location^1*Airport Code^1*Aircraft Category^1 + -0.000000000 * Location^1*Airport Code^1*Registration Number^1 + -0.000000000 * Location^1*Airport Code^1*Make^1 + 0.000000000 * Location^1*Airport Code^1*Model^1 + 0.000000002 * Location^1*Airport Code^1*Amateur Built^1 + 0.000000001 *

Location^1*Airport Code^1*Number of Engines^1 + 0.000000000 * Location^1*Airport Code^1*Engine Type^1 + 0.000000000 * Location^1*Airport Code^1*FAR Description^1 + -0.000000000 *

Location^1*Airport Code^1*Schedule^1 + -0.000000000 * Location^1*Airport Code^1*Purpose of Flight^1 + -0.000000000 * Location^1*Airport Code^1*Air Carrier^1 + 0.000000000 *

Location^1*Airport Code^1*Total Fatal Injuries^1 + 0.000000000 * Location^1*Airport Code^1*Total Serious Injuries^1 + -0.000000000 * Location^1*Airport Code^1*Total Minor Injuries^1 + -0.000000000 * Location^1*Airport Code^1*Total Uninjured^1 + 0.000000001 * Location^1*Airport Code^1*Weather Condition^1 + -0.000000000 * Location^1*Airport Code^1*Broad Phase of Flight^1 + 0.000000000 *

Location^1*Airport Code^1*Report Publication Date^1 + 0.000000000 * Location^1*Airport Code^1*Unnamed: 30^1 + 0.000000000 * Location^1*Airport Name^2 + 0.000000000 *

Location^1*Airport Name^1*Injury Severity^1 + -0.000000000 * Location^1*Airport Name^1*Aircraft Category^1 + -0.000000000 * Location^1*Airport Name^1*Registration Number^1 + 0.000000000 *

Location^1*Airport Name^1*Make^1 + -0.000000000 * Location^1*Airport Name^1*Model^1 + -0.000000000 * Location^1*Airport Name^1*Amateur Built^1 + 0.000000000 * Location^1*Airport Name^1*Number of Engines^1 + 0.000000000 * Location^1*Airport Name^1*Engine Type^1 + 0.000000000 * Location^1*Airport Name^1*FAR Description^1 + -0.000000000 * Location^1*Airport Name^1*Schedule^1 + 0.000000000 * Location^1*Airport Name^1*Purpose of Flight^1 + 0.000000000 * Location^1*Airport Name^1*Air Carrier^1 + 0.000000000 * Location^1*Airport Name^1*Total Fatal Injuries^1 + -0.000000000 * Location^1*Airport Name^1*Total Serious Injuries^1 + 0.000000000 *

Location^1*Airport Name^1*Total Minor Injuries^1 + 0.000000000 * Location^1*Airport Name^1*Total Uninjured^1 + -0.000000000 * Location^1*Airport Name^1*Weather Condition^1 + 0.000000000 *

Location^1*Airport Name^1*Broad Phase of Flight^1 + 0.000000000 * Location^1*Airport Name^1*Report Publication Date^1 + -0.000000000 * Location^1*Airport Name^1*Unnamed: 30^1 + 0.000000000 * Location^1*Injury Severity^2 + -0.000000042 * Location^1*Injury Severity^1*Aircraft Category^1 + 0.000000000 * Location^1*Injury Severity^1*Registration Number^1 + -0.000000000 * Location^1*Injury Severity^1*Make^1 + -0.000000000 * Location^1*Injury Severity^1*Model^1 + 0.000000009 * Location^1*Injury Severity^1*Amateur Built^1 + -0.000000010 * Location^1*Injury Severity^1*Number of Engines^1 + -0.000000005 * Location^1*Injury Severity^1*Engine Type^1 + 0.000000005 * Location^1*Injury Severity^1*FAR Description^1 + 0.000000019 * Location^1*Injury Severity^1*Schedule^1 + 0.000000006 * Location^1*Injury Severity^1*Purpose of Flight^1 + -0.000000000 * Location^1*Injury Severity^1*Air Carrier^1 + -0.000000028 * Location^1*Injury

Severity^1*Total Fatal Injuries^1 + -0.000000000 * Location^1*Injury Severity^1*Total Serious Injuries^1 + -0.000000002 * Location^1*Injury Severity^1*Total Minor Injuries^1 + 0.000000001 * Location^1*Injury Severity^1*Total Uninjured^1 + -0.000000016 * Location^1*Injury Severity^1*Weather Condition^1 + -0.000000001 * Location^1*Injury Severity^1*Broad Phase of Flight^1 + 0.000000000 * Location^1*Injury Severity^1*Report Publication Date^1 + 0.000000000 * Location^1*Injury Severity^1*Unnamed: 30^1 + 0.000000787 * Location^1*Aircraft Category^2 + 0.000000000 * Location^1*Aircraft Category^1*Registration Number^1 + 0.000000000 * Location^1*Aircraft Category^1*Make^1 + 0.000000000 * Location^1*Aircraft Category^1*Model^1 + -0.000003915 * Location^1*Aircraft Category^1*Amateur Built^1 + -0.000001052 * Location^1*Aircraft Category^1*Number of Engines^1 + -0.000000330 * Location^1*Aircraft Category^1*Engine Type^1 + -0.000000113 * Location^1*Aircraft Category^1*FAR Description^1 + 0.000001130 * Location^1*Aircraft Category^1*Schedule^1 + 0.000000101 * Location^1*Aircraft Category^1*Purpose of Flight^1 + -0.000000003 * Location^1*Aircraft Category^1*Air Carrier^1 + -0.000000108 * Location^1*Aircraft Category^1*Total Fatal Injuries^1 + 0.000000475 * Location^1*Aircraft Category^1*Total Serious Injuries^1 + -0.000000060 * Location^1*Aircraft Category^1*Total Minor Injuries^1 + 0.000000012 * Location^1*Aircraft Category^1*Total Uninjured^1 + 0.000002238 * Location^1*Aircraft Category^1*Weather Condition^1 + -0.000000039 * Location^1*Aircraft Category^1*Broad Phase of Flight^1 + 0.000000001 * Location^1*Aircraft Category^1*Report Publication Date^1 + 0.000000000 * Location^1*Aircraft Category^1*Unnamed: 30^1 + 0.000000000 * Location^1*Registration Number^2 + -0.000000000 * Location^1*Registration Number^1*Make^1 + -0.000000000 * Location^1*Registration Number^1*Model^1 + 0.000000000 * Location^1*Registration Number^1*Registration Number^1*Amateur Built^1 + 0.000000000 * Location^1*Registration Number^1*Number of Engines^1 + -0.000000000 * Location^1*Registration Number^1*Engine Type^1 + -0.000000000 * Location^1*Registration Number^1*FAR Description^1 + -0.000000000 * Location^1*Registration Number^1*Schedule^1 + 0.000000000 * Location^1*Registration Number^1*Purpose of Flight^1 + -0.000000000 * Location^1*Registration Number^1*Air Carrier^1 + -0.000000000 * Location^1*Registration Number^1*Total Fatal Injuries^1 + -0.000000000 * Location^1*Registration Number^1*Total Minor Injuries^1 + -0.000000000 * Location^1*Registration Number^1*Total Uninjured^1 + -0.000000000 * Location^1*Registration Number^1*Weather Condition^1 + -0.000000000 * Location^1*Registration Number^1*Broad Phase of Flight^1 + 0.000000000 * Location^1*Registration Number^1*Report Publication Date^1 + 0.000000000 * Location^1*Registration Number^1*Unnamed: 30^1 + -0.000000000 * Location^1*Make^2 + -0.000000000 * Location^1*Make^1*Model^1 + 0.000000000 * Location^1*Make^1*Amateur Built^1 + -0.000000000 * Location^1*Make^1*Number of Engines^1 + -0.000000000 * Location^1*Make^1*Engine Type^1 + -0.000000000 * Location^1*Make^1*FAR Description^1 + -0.000000001 * Location^1*Make^1*Schedule^1 + -0.000000000 * Location^1*Make^1*Purpose of Flight^1 + 0.000000000 * Location^1*Make^1*Air Carrier^1 + -0.000000000 * Location^1*Make^1*Total Fatal Injuries^1 + -0.000000000 * Location^1*Make^1*Total Minor Injuries^1 + 0.000000000 * Location^1*Make^1*Total Uninjured^1 + 0.000000001 * Location^1*Make^1*Weather Condition^1 + -0.000000000 * Location^1*Make^1*Broad Phase of Flight^1 + -0.000000000 * Location^1*Make^1*Report Publication Date^1 + -0.000000000 * Location^1*Make^1*Unnamed: 30^1 + -0.000000000 * Location^1*Model^2 + -0.000000000 * Location^1*Model^1*Amateur Built^1 + -0.000000000 * Location^1*Model^1*Number of Engines^1 + -0.000000000 *

Location^1*Model^1*Engine Type^1 + -0.000000000 * Location^1*Model^1*FAR Description^1 + 0.000000000 * Location^1*Model^1*Schedule^1 + 0.000000000 * Location^1*Model^1*Purpose of Flight^1 + -0.000000000 * Location^1*Model^1*Air Carrier^1 + 0.000000000 * Location^1*Model^1*Total Fatal Injuries^1 + 0.000000000 * Location^1*Model^1*Total Serious Injuries^1 + 0.000000000 * Location^1*Model^1*Total Minor Injuries^1 + 0.000000000 * Location^1*Model^1*Total Uninjured^1 + -0.000000000 * Location^1*Model^1*Weather Condition^1 + 0.000000000 * Location^1*Model^1*Broad Phase of Flight^1 + 0.000000000 * Location^1*Model^1*Report Publication Date^1 + 0.000000000 * Location^1*Model^1*Unnamed: 30^1 + 0.000004640 * Location^1*Amateur Built^2 + -0.000002119 * Location^1*Amateur Built^1*Number of Engines^1 + -0.000002029 * Location^1*Amateur Built^1*Engine Type^1 + 0.000000125 * Location^1*Amateur Built^1*FAR Description^1 + -0.000002832 * Location^1*Amateur Built^1*Schedule^1 + 0.000000527 * Location^1*Amateur Built^1*Purpose of Flight^1 + -0.000000201 * Location^1*Amateur Built^1*Air Carrier^1 + -0.000000147 * Location^1*Amateur Built^1*Total Fatal Injuries^1 + 0.000001339 * Location^1*Amateur Built^1*Total Serious Injuries^1 + 0.000000117 * Location^1*Amateur Built^1*Total Minor Injuries^1 + -0.000000007 * Location^1*Amateur Built^1*Total Uninjured^1 + -0.000000691 * Location^1*Amateur Built^1*Weather Condition^1 + -0.000000021 * Location^1*Amateur Built^1*Broad Phase of Flight^1 + -0.000000002 * Location^1*Amateur Built^1*Report Publication Date^1 + 0.000000000 * Location^1*Amateur Built^1*Unnamed: 30^1 + 0.000000784 * Location^1*Number of Engines^2 + 0.000000059 * Location^1*Number of Engines^1*Engine Type^1 + -0.000000318 * Location^1*Number of Engines^1*FAR Description^1 + -0.000000529 * Location^1*Number of Engines^1*Schedule^1 + 0.000000065 * Location^1*Number of Engines^1*Purpose of Flight^1 + 0.000000004 * Location^1*Number of Engines^1*Air Carrier^1 + -0.000000014 * Location^1*Number of Engines^1*Total Fatal Injuries^1 + -0.000000222 * Location^1*Number of Engines^1*Total Serious Injuries^1 + -0.000000039 * Location^1*Number of Engines^1*Total Minor Injuries^1 + -0.000000020 * Location^1*Number of Engines^1*Total Uninjured^1 + -0.000000958 * Location^1*Number of Engines^1*Weather Condition^1 + -0.000000121 * Location^1*Number of Engines^1*Broad Phase of Flight^1 + 0.000000000 * Location^1*Number of Engines^1*Report Publication Date^1 + 0.000000000 * Location^1*Number of Engines^1*Unnamed: 30^1 + -0.000000567 * Location^1*Engine Type^2 + 0.000000101 * Location^1*Engine Type^1*FAR Description^1 + 0.000000071 * Location^1*Engine Type^1*Schedule^1 + -0.000000109 * Location^1*Engine Type^1*Purpose of Flight^1 + 0.000000000 * Location^1*Engine Type^1*Air Carrier^1 + -0.000000008 * Location^1*Engine Type^1*Total Fatal Injuries^1 + -0.000000026 * Location^1*Engine Type^1*Total Serious Injuries^1 + 0.000000017 * Location^1*Engine Type^1*Total Minor Injuries^1 + 0.000000000 * Location^1*Engine Type^1*Total Uninjured^1 + -0.000000454 * Location^1*Engine Type^1*Weather Condition^1 + 0.000000076 * Location^1*Engine Type^1*Broad Phase of Flight^1 + -0.000000000 * Location^1*Engine Type^1*Report Publication Date^1 + 0.000000000 * Location^1*Engine Type^1*Unnamed: 30^1 + 0.000000006 * Location^1*FAR Description^2 + -0.000000243 * Location^1*FAR Description^1*Schedule^1 + -0.000000015 * Location^1*FAR Description^1*Purpose of Flight^1 + 0.000000001 * Location^1*FAR Description^1*Air Carrier^1 + 0.000000006 * Location^1*FAR Description^1*Total Fatal Injuries^1 + -0.000000006 * Location^1*FAR Description^1*Total Serious Injuries^1 + -0.000000007 * Location^1*FAR Description^1*Total Minor Injuries^1 + -0.000000001 * Location^1*FAR Description^1*Total Uninjured^1 + -0.000000208 * Location^1*FAR Description^1*Weather Condition^1 + -0.000000015 * Location^1*FAR Description^1*Broad Phase of

Flight^1 + -0.000000000 * Location^1*FAR Description^1*Report Publication Date^1 + -0.000000000 * Location^1*FAR Description^1*Unnamed: 30^1 + 0.000001615 * Location^1*Schedule^2 + 0.000000261 * Location^1*Schedule^1*Purpose of Flight^1 + -0.000000009 * Location^1*Schedule^1*Air Carrier^1 + -0.000000045 * Location^1*Schedule^1*Total Fatal Injuries^1 + 0.000000549 * Location^1*Schedule^1*Total Serious Injuries^1 + -0.000000388 * Location^1*Schedule^1*Total Minor Injuries^1 + 0.000000002 * Location^1*Schedule^1*Total Uninjured^1 + 0.000001524 * Location^1*Schedule^1*Weather Condition^1 + 0.000000325 * Location^1*Schedule^1*Broad Phase of Flight^1 + 0.000000000 * Location^1*Schedule^1*Report Publication Date^1 + 0.000000000 * Location^1*Schedule^1*Unnamed: 30^1 + -0.000000006 * Location^1*Purpose of Flight^2 + 0.000000000 * Location^1*Purpose of Flight^1*Air Carrier^1 + 0.000000010 * Location^1*Purpose of Flight^1*Total Fatal Injuries^1 + 0.000000011 * Location^1*Purpose of Flight^1*Total Serious Injuries^1 + 0.000000009 * Location^1*Purpose of Flight^1*Total Minor Injuries^1 + 0.000000003 * Location^1*Purpose of Flight^1*Total Uninjured^1 + -0.000000122 * Location^1*Purpose of Flight^1*Weather Condition^1 + 0.000000022 * Location^1*Purpose of Flight^1*Broad Phase of Flight^1 + -0.000000000 * Location^1*Purpose of Flight^1*Report Publication Date^1 + -0.000000000 * Location^1*Purpose of Flight^1*Unnamed: 30^1 + 0.000000000 * Location^1*Air Carrier^2 + 0.000000000 * Location^1*Air Carrier^1*Total Fatal Injuries^1 + -0.000000000 * Location^1*Air Carrier^1*Total Serious Injuries^1 + 0.000000001 * Location^1*Air Carrier^1*Total Minor Injuries^1 + -0.000000000 * Location^1*Air Carrier^1*Total Uninjured^1 + 0.000000004 * Location^1*Air Carrier^1*Weather Condition^1 + 0.000000000 * Location^1*Air Carrier^1*Broad Phase of Flight^1 + 0.000000000 * Location^1*Air Carrier^1*Report Publication Date^1 + -0.000000000 * Location^1*Air Carrier^1*Unnamed: 30^1 + 0.000000038 * Location^1*Total Fatal Injuries^2 + 0.000000002 * Location^1*Total Fatal Injuries^1*Total Serious Injuries^1 + 0.000000011 * Location^1*Total Fatal Injuries^1*Total Minor Injuries^1 + -0.000000001 * Location^1*Total Fatal Injuries^1*Total Uninjured^1 + 0.000000005 * Location^1*Total Fatal Injuries^1*Weather Condition^1 + 0.000000029 * Location^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + -0.000000000 * Location^1*Total Fatal Injuries^1*Report Publication Date^1 + -0.000000000 * Location^1*Total Fatal Injuries^1*Unnamed: 30^1 + -0.000000067 * Location^1*Total Serious Injuries^2 + 0.000000030 * Location^1*Total Serious Injuries^1*Total Minor Injuries^1 + -0.000000010 * Location^1*Total Serious Injuries^1*Total Uninjured^1 + 0.000000295 * Location^1*Total Serious Injuries^1*Weather Condition^1 + 0.000000116 * Location^1*Total Serious Injuries^1*Broad Phase of Flight^1 + 0.000000000 * Location^1*Total Serious Injuries^1*Report Publication Date^1 + -0.000000000 * Location^1*Total Serious Injuries^1*Unnamed: 30^1 + 0.000000006 * Location^1*Total Minor Injuries^2 + -0.000000003 * Location^1*Total Minor Injuries^1*Total Uninjured^1 + 0.000000035 * Location^1*Total Minor Injuries^1*Weather Condition^1 + 0.000000043 * Location^1*Total Minor Injuries^1*Broad Phase of Flight^1 + 0.000000000 * Location^1*Total Minor Injuries^1*Report Publication Date^1 + 0.000000000 * Location^1*Total Minor Injuries^1*Unnamed: 30^1 + -0.000000000 * Location^1*Total Uninjured^2 + -0.000000025 * Location^1*Total Uninjured^1*Weather Condition^1 + 0.000000003 * Location^1*Total Uninjured^1*Broad Phase of Flight^1 + -0.000000000 * Location^1*Total Uninjured^1*Report Publication Date^1 + -0.000000000 * Location^1*Total Uninjured^1*Unnamed: 30^1 + -0.000000449 * Location^1*Weather Condition^2 + -0.000000089 * Location^1*Weather Condition^1*Broad Phase of Flight^1 + -0.000000001 * Location^1*Weather Condition^1*Report Publication Date^1 + -0.000000000 * Location^1*Weather Condition^1*Unnamed: 30^1 + 0.000000002 * Location^1*Broad Phase of Flight^2 + 0.000000000 * Location^1*Broad Phase of

Flight^1*Report Publication Date^1 + -0.000000000 * Location^1*Broad Phase of Flight^1*Unnamed:
30^1 + -0.000000000 * Location^1*Report Publication Date^2 + 0.000000000 * Location^1*Report
Publication Date^1*Unnamed: 30^1 + -0.000000000 * Location^1*Unnamed: 30^2 + 0.000000345 *
Country^3 + 0.000000010 * Country^2*Latitude^1 + -0.000000003 * Country^2*Longitude^1 + -
0.000000009 * Country^2*Airport Code^1 + 0.000000011 * Country^2*Airport Name^1 + -0.000000077
* Country^2*Injury Severity^1 + -0.000009340 * Country^2*Aircraft Category^1 + -0.000000000 *
Country^2*Registration Number^1 + 0.000000000 * Country^2*Make^1 + 0.000000001 *
Country^2*Model^1 + -0.000045708 * Country^2*Amateur Built^1 + 0.000000274 *
Country^2*Number of Engines^1 + 0.00008223 * Country^2*Engine Type^1 + -0.00000693 *
Country^2*FAR Description^1 + 0.000011123 * Country^2*Schedule^1 + 0.000002050 *
Country^2*Purpose of Flight^1 + -0.000000061 * Country^2*Air Carrier^1 + 0.000000028 *
Country^2*Total Fatal Injuries^1 + 0.000000139 * Country^2*Total Serious Injuries^1 + 0.000003784 *
Country^2*Total Minor Injuries^1 + -0.000000213 * Country^2*Total Uninjured^1 + -0.000006566 *
Country^2*Weather Condition^1 + -0.000006495 * Country^2*Broad Phase of Flight^1 + -0.000000007
* Country^2*Report Publication Date^1 + 0.000000000 * Country^2*Unnamed: 30^1 + 0.000000000 *
Country^1*Latitude^2 + -0.000000000 * Country^1*Latitude^1*Longitude^1 + -0.000000000 *
Country^1*Latitude^1*Airport Code^1 + 0.000000000 * Country^1*Latitude^1*Airport Name^1 + -
0.000000012 * Country^1*Latitude^1*Injury Severity^1 + 0.000000655 *
Country^1*Latitude^1*Aircraft Category^1 + -0.000000000 * Country^1*Latitude^1*Registration
Number^1 + 0.000000000 * Country^1*Latitude^1*Make^1 + -0.000000000 *
Country^1*Latitude^1*Model^1 + 0.000000611 * Country^1*Latitude^1*Amateur Built^1 +
0.000000149 * Country^1*Latitude^1*Number of Engines^1 + 0.000000090 *
Country^1*Latitude^1*Engine Type^1 + -0.000000078 * Country^1*Latitude^1*FAR Description^1 + -
0.000000436 * Country^1*Latitude^1*Schedule^1 + -0.000000036 * Country^1*Latitude^1*Purpose of
Flight^1 + -0.000000007 * Country^1*Latitude^1*Air Carrier^1 + 0.000000007 *
Country^1*Latitude^1*Total Fatal Injuries^1 + 0.000000020 * Country^1*Latitude^1*Total Serious
Injuries^1 + 0.000000032 * Country^1*Latitude^1*Total Minor Injuries^1 + 0.000000002 *
Country^1*Latitude^1*Total Uninjured^1 + 0.000000022 * Country^1*Latitude^1*Weather Condition^1
+ -0.000000075 * Country^1*Latitude^1*Broad Phase of Flight^1 + -0.000000000 *
Country^1*Latitude^1*Report Publication Date^1 + 0.000000000 * Country^1*Latitude^1*Unnamed:
30^1 + 0.000000000 * Country^1*Longitude^2 + 0.000000000 * Country^1*Longitude^1*Airport
Code^1 + 0.000000000 * Country^1*Longitude^1*Airport Name^1 + -0.000000000 *
Country^1*Longitude^1*Injury Severity^1 + -0.000000265 * Country^1*Longitude^1*Aircraft
Category^1 + 0.000000000 * Country^1*Longitude^1*Registration Number^1 + -0.000000000 *
Country^1*Longitude^1*Make^1 + -0.000000000 * Country^1*Longitude^1*Model^1 + -0.000000848 *
Country^1*Longitude^1*Amateur Built^1 + 0.000000234 * Country^1*Longitude^1*Number of
Engines^1 + -0.000000255 * Country^1*Longitude^1*Engine Type^1 + -0.000000001 *
Country^1*Longitude^1*FAR Description^1 + 0.000000239 * Country^1*Longitude^1*Schedule^1 +
0.000000042 * Country^1*Longitude^1*Purpose of Flight^1 + -0.000000005 *
Country^1*Longitude^1*Air Carrier^1 + -0.000000005 * Country^1*Longitude^1*Total Fatal Injuries^1
+ 0.000000032 * Country^1*Longitude^1*Total Serious Injuries^1 + -0.000000037 *
Country^1*Longitude^1*Total Minor Injuries^1 + -0.000000004 * Country^1*Longitude^1*Total
Uninjured^1 + 0.000000001 * Country^1*Longitude^1*Weather Condition^1 + 0.000000005 *
Country^1*Longitude^1*Broad Phase of Flight^1 + 0.000000000 * Country^1*Longitude^1*Report

Publication Date^1 + -0.000000000 * Country^1*Longitude^1*Unnamed: 30^1 + -0.000000000 *
Country^1*Airport Code^2 + 0.000000000 * Country^1*Airport Code^1*Airport Name^1 + -
0.000000003 * Country^1*Airport Code^1*Injury Severity^1 + -0.000000644 * Country^1*Airport
Code^1*Aircraft Category^1 + -0.000000000 * Country^1*Airport Code^1*Registration Number^1 + -
0.000000000 * Country^1*Airport Code^1*Make^1 + 0.000000000 * Country^1*Airport
Code^1*Model^1 + -0.000000604 * Country^1*Airport Code^1*Amateur Built^1 + 0.000000293 *
Country^1*Airport Code^1*Number of Engines^1 + 0.000000152 * Country^1*Airport Code^1*Engine
Type^1 + -0.000000040 * Country^1*Airport Code^1*FAR Description^1 + 0.000000299 *
Country^1*Airport Code^1*Schedule^1 + -0.000000041 * Country^1*Airport Code^1*Purpose of
Flight^1 + -0.000000000 * Country^1*Airport Code^1*Air Carrier^1 + 0.000000024 * Country^1*Airport
Code^1*Total Fatal Injuries^1 + 0.000000122 * Country^1*Airport Code^1*Total Serious Injuries^1 + -
0.000000004 * Country^1*Airport Code^1*Total Minor Injuries^1 + 0.000000004 * Country^1*Airport
Code^1*Total Uninjured^1 + -0.000000376 * Country^1*Airport Code^1*Weather Condition^1 +
0.000000058 * Country^1*Airport Code^1*Broad Phase of Flight^1 + 0.000000000 * Country^1*Airport
Code^1*Report Publication Date^1 + 0.000000000 * Country^1*Airport Code^1*Unnamed: 30^1 +
0.000000000 * Country^1*Airport Name^2 + -0.000000002 * Country^1*Airport Name^1*Injury
Severity^1 + 0.000000219 * Country^1*Airport Name^1*Aircraft Category^1 + 0.000000000 *
Country^1*Airport Name^1*Registration Number^1 + 0.000000000 * Country^1*Airport
Name^1*Make^1 + -0.000000000 * Country^1*Airport Name^1*Model^1 + 0.000000614 *
Country^1*Airport Name^1*Amateur Built^1 + -0.000000131 * Country^1*Airport Name^1*Number of
Engines^1 + 0.000000056 * Country^1*Airport Name^1*Engine Type^1 + 0.000000016 *
Country^1*Airport Name^1*FAR Description^1 + 0.000000057 * Country^1*Airport
Name^1*Schedule^1 + 0.000000021 * Country^1*Airport Name^1*Purpose of Flight^1 + 0.000000000 *
Country^1*Airport Name^1*Air Carrier^1 + -0.000000012 * Country^1*Airport Name^1*Total Fatal
Injuries^1 + -0.000000063 * Country^1*Airport Name^1*Total Serious Injuries^1 + 0.000000010 *
Country^1*Airport Name^1*Total Minor Injuries^1 + -0.000000000 * Country^1*Airport Name^1*Total
Uninjured^1 + 0.000000026 * Country^1*Airport Name^1*Weather Condition^1 + -0.000000035 *
Country^1*Airport Name^1*Broad Phase of Flight^1 + -0.000000000 * Country^1*Airport
Name^1*Report Publication Date^1 + 0.000000000 * Country^1*Airport Name^1*Unnamed: 30^1 +
0.000000099 * Country^1*Injury Severity^2 + -0.000022680 * Country^1*Injury Severity^1*Aircraft
Category^1 + -0.000000000 * Country^1*Injury Severity^1*Registration Number^1 + -0.000000003 *
Country^1*Injury Severity^1*Make^1 + 0.000000002 * Country^1*Injury Severity^1*Model^1 + -
0.000031130 * Country^1*Injury Severity^1*Amateur Built^1 + 0.000017946 * Country^1*Injury
Severity^1*Number of Engines^1 + -0.000000892 * Country^1*Injury Severity^1*Engine Type^1 +
0.000000484 * Country^1*Injury Severity^1*FAR Description^1 + 0.000015540 * Country^1*Injury
Severity^1*Schedule^1 + -0.000000483 * Country^1*Injury Severity^1*Purpose of Flight^1 + -
0.000000005 * Country^1*Injury Severity^1*Air Carrier^1 + 0.000006740 * Country^1*Injury
Severity^1*Total Fatal Injuries^1 + 0.000001468 * Country^1*Injury Severity^1*Total Serious Injuries^1 +
0.000001266 * Country^1*Injury Severity^1*Total Minor Injuries^1 + -0.000000060 *
Country^1*Injury Severity^1*Total Uninjured^1 + 0.000000987 * Country^1*Injury Severity^1*Weather
Condition^1 + 0.000001467 * Country^1*Injury Severity^1*Broad Phase of Flight^1 + 0.000000017 *
Country^1*Injury Severity^1*Report Publication Date^1 + 0.000000000 * Country^1*Injury
Severity^1*Unnamed: 30^1 + 0.000818916 * Country^1*Aircraft Category^2 + -0.000000008 *
Country^1*Aircraft Category^1*Registration Number^1 + 0.000000276 * Country^1*Aircraft

Category^1*Make^1 + -0.000000212 * Country^1*Aircraft Category^1*Model^1 + 0.000920137 *
Country^1*Aircraft Category^1*Amateur Built^1 + 0.001322821 * Country^1*Aircraft
Category^1*Number of Engines^1 + -0.001033439 * Country^1*Aircraft Category^1*Engine Type^1 + -
0.000279130 * Country^1*Aircraft Category^1*FAR Description^1 + 0.000989844 * Country^1*Aircraft
Category^1*Schedule^1 + -0.000121617 * Country^1*Aircraft Category^1*Purpose of Flight^1 + -
0.000000721 * Country^1*Aircraft Category^1*Air Carrier^1 + 0.000036947 * Country^1*Aircraft
Category^1*Total Fatal Injuries^1 + 0.000152783 * Country^1*Aircraft Category^1*Total Serious
Injuries^1 + -0.000050311 * Country^1*Aircraft Category^1*Total Minor Injuries^1 + 0.000012647 *
Country^1*Aircraft Category^1*Total Uninjured^1 + 0.000896887 * Country^1*Aircraft
Category^1*Weather Condition^1 + 0.000654629 * Country^1*Aircraft Category^1*Broad Phase of
Flight^1 + 0.000000481 * Country^1*Aircraft Category^1*Report Publication Date^1 + -0.000000000 *
Country^1*Aircraft Category^1*Unnamed: 30^1 + 0.000000000 * Country^1*Registration Number^2 + -
0.000000000 * Country^1*Registration Number^1*Make^1 + 0.000000000 * Country^1*Registration
Number^1*Model^1 + 0.000000026 * Country^1*Registration Number^1*Amateur Built^1 + -
0.000000015 * Country^1*Registration Number^1*Number of Engines^1 + -0.000000005 *
Country^1*Registration Number^1*Engine Type^1 + -0.000000001 * Country^1*Registration
Number^1*FAR Description^1 + -0.000000005 * Country^1*Registration Number^1*Schedule^1 +
0.000000000 * Country^1*Registration Number^1*Purpose of Flight^1 + 0.000000000 *
Country^1*Registration Number^1*Air Carrier^1 + 0.000000000 * Country^1*Registration
Number^1*Total Fatal Injuries^1 + -0.000000001 * Country^1*Registration Number^1*Total Serious
Injuries^1 + 0.000000000 * Country^1*Registration Number^1*Total Minor Injuries^1 + 0.000000000 *
Country^1*Registration Number^1*Total Uninjured^1 + 0.000000008 * Country^1*Registration
Number^1*Weather Condition^1 + -0.000000003 * Country^1*Registration Number^1*Broad Phase of
Flight^1 + -0.000000000 * Country^1*Registration Number^1*Report Publication Date^1 + 0.000000000
* Country^1*Registration Number^1*Unnamed: 30^1 + 0.000000000 * Country^1*Make^2 +
0.000000000 * Country^1*Make^1*Model^1 + 0.000000372 * Country^1*Make^1*Amateur Built^1 +
0.000000204 * Country^1*Make^1*Number of Engines^1 + 0.000000038 * Country^1*Make^1*Engine
Type^1 + 0.000000006 * Country^1*Make^1*FAR Description^1 + -0.000000137 *
Country^1*Make^1*Schedule^1 + -0.000000040 * Country^1*Make^1*Purpose of Flight^1 + -
0.000000000 * Country^1*Make^1*Air Carrier^1 + -0.000000014 * Country^1*Make^1*Total Fatal
Injuries^1 + -0.000000019 * Country^1*Make^1*Total Serious Injuries^1 + -0.000000035 *
Country^1*Make^1*Total Minor Injuries^1 + -0.000000001 * Country^1*Make^1*Total Uninjured^1 + -
0.000000203 * Country^1*Make^1*Weather Condition^1 + 0.000000055 * Country^1*Make^1*Broad
Phase of Flight^1 + 0.000000000 * Country^1*Make^1*Report Publication Date^1 + -0.000000000 *
Country^1*Make^1*Unnamed: 30^1 + -0.000000000 * Country^1*Model^2 + -0.000000198 *
Country^1*Model^1*Amateur Built^1 + -0.000000197 * Country^1*Model^1*Number of Engines^1 + -
0.000000030 * Country^1*Model^1*Engine Type^1 + -0.000000002 * Country^1*Model^1*FAR
Description^1 + -0.000000113 * Country^1*Model^1*Schedule^1 + 0.000000022 *
Country^1*Model^1*Purpose of Flight^1 + -0.000000000 * Country^1*Model^1*Air Carrier^1 +
0.000000002 * Country^1*Model^1*Total Fatal Injuries^1 + 0.000000025 * Country^1*Model^1*Total
Serious Injuries^1 + -0.000000010 * Country^1*Model^1*Total Minor Injuries^1 + 0.000000000 *
Country^1*Model^1*Total Uninjured^1 + 0.000000067 * Country^1*Model^1*Weather Condition^1 + -
0.000000038 * Country^1*Model^1*Broad Phase of Flight^1 + -0.000000000 *
Country^1*Model^1*Report Publication Date^1 + -0.000000000 * Country^1*Model^1*Unnamed: 30^1

+ 0.002230532 * Country^1*Amateur Built^2 + -0.001379859 * Country^1*Amateur Built^1*Number of Engines^1 + 0.000494094 * Country^1*Amateur Built^1*Engine Type^1 + -0.000440300 * Country^1*Amateur Built^1*FAR Description^1 + -0.001611429 * Country^1*Amateur Built^1*Schedule^1 + -0.000033065 * Country^1*Amateur Built^1*Purpose of Flight^1 + 0.000013628 * Country^1*Amateur Built^1*Air Carrier^1 + -0.000049413 * Country^1*Amateur Built^1*Total Fatal Injuries^1 + 0.000290283 * Country^1*Amateur Built^1*Total Serious Injuries^1 + -0.000200294 * Country^1*Amateur Built^1*Total Minor Injuries^1 + 0.000015058 * Country^1*Amateur Built^1*Total Uninjured^1 + 0.000114289 * Country^1*Amateur Built^1*Weather Condition^1 + -0.000159087 * Country^1*Amateur Built^1*Broad Phase of Flight^1 + -0.000003691 * Country^1*Amateur Built^1*Report Publication Date^1 + 0.000000000 * Country^1*Amateur Built^1*Unnamed: 30^1 + -0.000090713 * Country^1*Number of Engines^2 + -0.000137744 * Country^1*Number of Engines^1*Engine Type^1 + -0.000045400 * Country^1*Number of Engines^1*FAR Description^1 + -0.000154802 * Country^1*Number of Engines^1*Schedule^1 + -0.000004028 * Country^1*Number of Engines^1*Purpose of Flight^1 + -0.000000456 * Country^1*Number of Engines^1*Air Carrier^1 + -0.000008518 * Country^1*Number of Engines^1*Total Fatal Injuries^1 + 0.000012453 * Country^1*Number of Engines^1*Total Serious Injuries^1 + -0.000021129 * Country^1*Number of Engines^1*Total Minor Injuries^1 + -0.000000967 * Country^1*Number of Engines^1*Total Uninjured^1 + 0.000075041 * Country^1*Number of Engines^1*Weather Condition^1 + 0.000057942 * Country^1*Number of Engines^1*Broad Phase of Flight^1 + 0.000000526 * Country^1*Number of Engines^1*Report Publication Date^1 + 0.000000000 * Country^1*Number of Engines^1*Unnamed: 30^1 + 0.000159213 * Country^1*Engine Type^2 + 0.000032612 * Country^1*Engine Type^1*FAR Description^1 + -0.000175519 * Country^1*Engine Type^1*Schedule^1 + -0.000018257 * Country^1*Engine Type^1*Purpose of Flight^1 + -0.000000105 * Country^1*Engine Type^1*Air Carrier^1 + 0.000000950 * Country^1*Engine Type^1*Total Fatal Injuries^1 + 0.000058019 * Country^1*Engine Type^1*Total Serious Injuries^1 + -0.000019352 * Country^1*Engine Type^1*Total Minor Injuries^1 + 0.000001529 * Country^1*Engine Type^1*Total Uninjured^1 + -0.000256866 * Country^1*Engine Type^1*Weather Condition^1 + 0.000078112 * Country^1*Engine Type^1*Broad Phase of Flight^1 + -0.000000014 * Country^1*Engine Type^1*Report Publication Date^1 + -0.000000000 * Country^1*Engine Type^1*Unnamed: 30^1 + 0.000009944 * Country^1*FAR Description^2 + 0.000050417 * Country^1*FAR Description^1*Schedule^1 + 0.000007352 * Country^1*FAR Description^1*Purpose of Flight^1 + 0.000000029 * Country^1*FAR Description^1*Air Carrier^1 + -0.000000946 * Country^1*FAR Description^1*Total Fatal Injuries^1 + 0.000032292 * Country^1*FAR Description^1*Total Serious Injuries^1 + 0.000013106 * Country^1*FAR Description^1*Total Minor Injuries^1 + -0.000000284 * Country^1*FAR Description^1*Total Uninjured^1 + 0.000148781 * Country^1*FAR Description^1*Weather Condition^1 + -0.000062991 * Country^1*FAR Description^1*Broad Phase of Flight^1 + 0.000000068 * Country^1*FAR Description^1*Report Publication Date^1 + 0.000000000 * Country^1*FAR Description^1*Unnamed: 30^1 + 0.000550375 * Country^1*Schedule^2 + -0.000010629 * Country^1*Schedule^1*Purpose of Flight^1 + -0.000000898 * Country^1*Schedule^1*Air Carrier^1 + -0.000000780 * Country^1*Schedule^1*Total Fatal Injuries^1 + 0.000001602 * Country^1*Schedule^1*Total Serious Injuries^1 + 0.000060050 * Country^1*Schedule^1*Total Minor Injuries^1 + -0.000004367 * Country^1*Schedule^1*Total Uninjured^1 + -0.000338279 * Country^1*Schedule^1*Weather Condition^1 + -0.000237815 * Country^1*Schedule^1*Broad Phase of Flight^1 + 0.000000118 * Country^1*Schedule^1*Report Publication Date^1 + -0.000000000 * Country^1*Schedule^1*Unnamed:

30^1 + -0.000012908 * Country^1*Purpose of Flight^2 + 0.000000128 * Country^1*Purpose of Flight^1*Air Carrier^1 + 0.000000339 * Country^1*Purpose of Flight^1*Total Fatal Injuries^1 + -0.000009039 * Country^1*Purpose of Flight^1*Total Serious Injuries^1 + 0.000001642 * Country^1*Purpose of Flight^1*Total Minor Injuries^1 + -0.000000019 * Country^1*Purpose of Flight^1*Total Uninjured^1 + 0.000032002 * Country^1*Purpose of Flight^1*Weather Condition^1 + -0.000005626 * Country^1*Purpose of Flight^1*Broad Phase of Flight^1 + -0.000000052 * Country^1*Purpose of Flight^1*Report Publication Date^1 + -0.000000000 * Country^1*Purpose of Flight^1*Unnamed: 30^1 + -0.000000004 * Country^1*Air Carrier^2 + 0.000000059 * Country^1*Air Carrier^1*Total Fatal Injuries^1 + -0.000000030 * Country^1*Air Carrier^1*Total Serious Injuries^1 + -0.000000043 * Country^1*Air Carrier^1*Total Minor Injuries^1 + 0.000000016 * Country^1*Air Carrier^1*Total Uninjured^1 + -0.000000946 * Country^1*Air Carrier^1*Weather Condition^1 + 0.000000201 * Country^1*Air Carrier^1*Broad Phase of Flight^1 + 0.000000002 * Country^1*Air Carrier^1*Report Publication Date^1 + 0.000000000 * Country^1*Air Carrier^1*Unnamed: 30^1 + -0.000007733 * Country^1*Total Fatal Injuries^2 + 0.000002253 * Country^1*Total Fatal Injuries^1*Total Fatal Injuries^1 + 0.000004281 * Country^1*Total Fatal Injuries^1*Total Minor Injuries^1 + 0.000000788 * Country^1*Total Fatal Injuries^1*Total Uninjured^1 + 0.000003561 * Country^1*Total Fatal Injuries^1*Weather Condition^1 + 0.000003500 * Country^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + 0.000000004 * Country^1*Total Fatal Injuries^1*Report Publication Date^1 + -0.000000000 * Country^1*Total Fatal Injuries^1*Unnamed: 30^1 + 0.000009295 * Country^1*Total Serious Injuries^2 + -0.000007790 * Country^1*Total Serious Injuries^1*Total Minor Injuries^1 + -0.000000659 * Country^1*Total Serious Injuries^1*Total Uninjured^1 + -0.000081727 * Country^1*Total Serious Injuries^1*Weather Condition^1 + -0.000008907 * Country^1*Total Serious Injuries^1*Broad Phase of Flight^1 + 0.000000047 * Country^1*Total Serious Injuries^1*Report Publication Date^1 + 0.000000000 * Country^1*Total Serious Injuries^1*Unnamed: 30^1 + -0.000001807 * Country^1*Total Minor Injuries^2 + -0.000000937 * Country^1*Total Minor Injuries^1*Total Uninjured^1 + 0.000021063 * Country^1*Total Minor Injuries^1*Weather Condition^1 + -0.000009027 * Country^1*Total Minor Injuries^1*Broad Phase of Flight^1 + -0.000000089 * Country^1*Total Minor Injuries^1*Report Publication Date^1 + -0.000000000 * Country^1*Total Minor Injuries^1*Unnamed: 30^1 + -0.000000076 * Country^1*Total Uninjured^2 + -0.000002606 * Country^1*Total Uninjured^1*Weather Condition^1 + -0.000001979 * Country^1*Total Uninjured^1*Broad Phase of Flight^1 + -0.000000001 * Country^1*Total Uninjured^1*Report Publication Date^1 + 0.000000000 * Country^1*Total Uninjured^1*Unnamed: 30^1 + -0.000301471 * Country^1*Weather Condition^2 + -0.000008734 * Country^1*Weather Condition^1*Broad Phase of Flight^1 + 0.000000285 * Country^1*Weather Condition^1*Report Publication Date^1 + -0.000000000 * Country^1*Weather Condition^1*Unnamed: 30^1 + -0.000025564 * Country^1*Broad Phase of Flight^2 + 0.000000002 * Country^1*Broad Phase of Flight^1*Report Publication Date^1 + -0.000000000 * Country^1*Broad Phase of Flight^1*Unnamed: 30^1 + -0.000000000 * Country^1*Report Publication Date^2 + -0.000000000 * Country^1*Report Publication Date^1*Unnamed: 30^1 + 0.000000000 * Country^1*Unnamed: 30^2 + 0.000000000 * Latitude^3 + 0.000000000 * Latitude^2*Longitude^1 + 0.000000000 * Latitude^2*Airport Code^1 + -0.000000000 * Latitude^2*Airport Name^1 + 0.000000000 * Latitude^2*Injury Severity^1 + -0.000000000 * Latitude^2*Aircraft Category^1 + 0.000000000 * Latitude^2*Registration Number^1 + -0.000000000 * Latitude^2*Make^1 + 0.000000000 * Latitude^2*Model^1 + 0.000000001 * Latitude^2*Amateur Built^1 + 0.000000001 * Latitude^2*Number of Engines^1 + -0.000000001 * Latitude^2*Engine Type^1 + 0.000000000 *

Latitude^2*FAR Description^1 + 0.000000006 * Latitude^2*Schedule^1 + -0.000000001 *
Latitude^2*Purpose of Flight^1 + -0.000000000 * Latitude^2*Air Carrier^1 + -0.000000000 *
Latitude^2*Total Fatal Injuries^1 + -0.000000000 * Latitude^2*Total Serious Injuries^1 + 0.000000000 *
Latitude^2*Total Minor Injuries^1 + 0.000000000 * Latitude^2*Total Uninjured^1 + 0.000000001 *
Latitude^2*Weather Condition^1 + 0.000000000 * Latitude^2*Broad Phase of Flight^1 + -0.000000000 *
* Latitude^2*Report Publication Date^1 + 0.000000000 * Latitude^2*Unnamed: 30^1 + -0.000000000 *
Latitude^1*Longitude^2 + -0.000000000 * Latitude^1*Longitude^1*Airport Code^1 + 0.000000000 *
Latitude^1*Longitude^1*Airport Name^1 + 0.000000000 * Latitude^1*Longitude^1*Injury Severity^1 +
-0.000000002 * Latitude^1*Longitude^1*Aircraft Category^1 + -0.000000000 *
Latitude^1*Longitude^1*Registration Number^1 + 0.000000000 * Latitude^1*Longitude^1*Make^1 + -
0.000000000 * Latitude^1*Longitude^1*Model^1 + 0.000000003 * Latitude^1*Longitude^1*Amateur
Built^1 + -0.000000001 * Latitude^1*Longitude^1*Number of Engines^1 + -0.000000000 *
Latitude^1*Longitude^1*Engine Type^1 + 0.000000000 * Latitude^1*Longitude^1*FAR Description^1 +
-0.000000001 * Latitude^1*Longitude^1*Schedule^1 + 0.000000000 *
Latitude^1*Longitude^1*Purpose of Flight^1 + 0.000000000 * Latitude^1*Longitude^1*Air Carrier^1 +
0.000000000 * Latitude^1*Longitude^1*Total Fatal Injuries^1 + -0.000000001 *
Latitude^1*Longitude^1*Total Serious Injuries^1 + 0.000000000 * Latitude^1*Longitude^1*Total Minor
Injuries^1 + -0.000000000 * Latitude^1*Longitude^1*Total Uninjured^1 + 0.000000002 *
Latitude^1*Longitude^1*Weather Condition^1 + -0.000000000 * Latitude^1*Longitude^1*Broad Phase
of Flight^1 + -0.000000000 * Latitude^1*Longitude^1*Report Publication Date^1 + -0.000000000 *
Latitude^1*Longitude^1*Unnamed: 30^1 + 0.000000000 * Latitude^1*Airport Code^2 + 0.000000000 *
Latitude^1*Airport Code^1*Airport Name^1 + 0.000000000 * Latitude^1*Airport Code^1*Injury
Severity^1 + -0.000000003 * Latitude^1*Airport Code^1*Aircraft Category^1 + -0.000000000 *
Latitude^1*Airport Code^1*Registration Number^1 + 0.000000000 * Latitude^1*Airport
Code^1*Make^1 + 0.000000000 * Latitude^1*Airport Code^1*Model^1 + 0.000000002 *
Latitude^1*Airport Code^1*Amateur Built^1 + -0.000000008 * Latitude^1*Airport Code^1*Number of
Engines^1 + -0.000000001 * Latitude^1*Airport Code^1*Engine Type^1 + 0.000000000 *
Latitude^1*Airport Code^1*FAR Description^1 + -0.000000010 * Latitude^1*Airport
Code^1*Schedule^1 + -0.000000000 * Latitude^1*Airport Code^1*Purpose of Flight^1 + 0.000000000 *
Latitude^1*Airport Code^1*Air Carrier^1 + 0.000000000 * Latitude^1*Airport Code^1*Total Fatal
Injuries^1 + 0.000000001 * Latitude^1*Airport Code^1*Total Serious Injuries^1 + -0.000000000 *
Latitude^1*Airport Code^1*Total Minor Injuries^1 + -0.000000000 * Latitude^1*Airport Code^1*Total
Uninjured^1 + -0.000000002 * Latitude^1*Airport Code^1*Weather Condition^1 + -0.000000000 *
Latitude^1*Airport Code^1*Broad Phase of Flight^1 + 0.000000000 * Latitude^1*Airport
Code^1*Report Publication Date^1 + -0.000000000 * Latitude^1*Airport Code^1*Unnamed: 30^1 + -
0.000000000 * Latitude^1*Airport Name^2 + -0.000000000 * Latitude^1*Airport Name^1*Injury
Severity^1 + 0.000000000 * Latitude^1*Airport Name^1*Aircraft Category^1 + 0.000000000 *
Latitude^1*Airport Name^1*Registration Number^1 + 0.000000000 * Latitude^1*Airport
Name^1*Make^1 + 0.000000000 * Latitude^1*Airport Name^1*Model^1 + -0.000000001 *
Latitude^1*Airport Name^1*Amateur Built^1 + 0.000000001 * Latitude^1*Airport Name^1*Number of
Engines^1 + 0.000000001 * Latitude^1*Airport Name^1*Engine Type^1 + -0.000000000 *
Latitude^1*Airport Name^1*FAR Description^1 + 0.000000005 * Latitude^1*Airport
Name^1*Schedule^1 + 0.000000000 * Latitude^1*Airport Name^1*Purpose of Flight^1 + -0.000000000 *
* Latitude^1*Airport Name^1*Air Carrier^1 + -0.000000000 * Latitude^1*Airport Name^1*Total Fatal

Injuries^1 + -0.000000000 * Latitude^1*Airport Name^1*Total Serious Injuries^1 + -0.000000000 * Latitude^1*Airport Name^1*Total Minor Injuries^1 + 0.000000000 * Latitude^1*Airport Name^1*Total Uninjured^1 + 0.000000002 * Latitude^1*Airport Name^1*Weather Condition^1 + -0.000000000 * Latitude^1*Airport Name^1*Broad Phase of Flight^1 + -0.000000000 * Latitude^1*Airport Name^1*Report Publication Date^1 + 0.000000000 * Latitude^1*Airport Name^1*Unnamed: 30^1 + -0.000000346 * Latitude^1*Injury Severity^2 + -0.000000343 * Latitude^1*Injury Severity^1*Aircraft Category^1 + 0.000000000 * Latitude^1*Injury Severity^1*Registration Number^1 + -0.000000000 * Latitude^1*Injury Severity^1*Make^1 + -0.000000000 * Latitude^1*Injury Severity^1*Model^1 + -0.000000129 * Latitude^1*Injury Severity^1*Amateur Built^1 + 0.000000031 * Latitude^1*Injury Severity^1*Number of Engines^1 + 0.000000096 * Latitude^1*Injury Severity^1*Engine Type^1 + 0.000000019 * Latitude^1*Injury Severity^1*FAR Description^1 + -0.000000406 * Latitude^1*Injury Severity^1*Schedule^1 + 0.000000032 * Latitude^1*Injury Severity^1*Purpose of Flight^1 + -0.000000000 * Latitude^1*Injury Severity^1*Air Carrier^1 + 0.000000518 * Latitude^1*Injury Severity^1*Total Fatal Injuries^1 + 0.000000009 * Latitude^1*Injury Severity^1*Total Serious Injuries^1 + 0.000000045 * Latitude^1*Injury Severity^1*Total Minor Injuries^1 + -0.000000007 * Latitude^1*Injury Severity^1*Total Uninjured^1 + 0.000000189 * Latitude^1*Injury Severity^1*Weather Condition^1 + -0.000000028 * Latitude^1*Injury Severity^1*Broad Phase of Flight^1 + 0.000000000 * Latitude^1*Injury Severity^1*Report Publication Date^1 + -0.000000000 * Latitude^1*Injury Severity^1*Unnamed: 30^1 + -0.000003136 * Latitude^1*Aircraft Category^2 + 0.000000000 * Latitude^1*Aircraft Category^1*Registration Number^1 + 0.000000003 * Latitude^1*Aircraft Category^1*Make^1 + 0.000000000 * Latitude^1*Aircraft Category^1*Model^1 + 0.000001925 * Latitude^1*Aircraft Category^1*Amateur Built^1 + 0.000003044 * Latitude^1*Aircraft Category^1*Number of Engines^1 + -0.000003023 * Latitude^1*Aircraft Category^1*Engine Type^1 + -0.000006794 * Latitude^1*Aircraft Category^1*FAR Description^1 + 0.000007706 * Latitude^1*Aircraft Category^1*Schedule^1 + 0.000000037 * Latitude^1*Aircraft Category^1*Purpose of Flight^1 + -0.000000051 * Latitude^1*Aircraft Category^1*Air Carrier^1 + -0.000000287 * Latitude^1*Aircraft Category^1*Total Fatal Injuries^1 + 0.000002237 * Latitude^1*Aircraft Category^1*Total Serious Injuries^1 + -0.000000749 * Latitude^1*Aircraft Category^1*Total Minor Injuries^1 + 0.000000022 * Latitude^1*Aircraft Category^1*Total Uninjured^1 + -0.000003931 * Latitude^1*Aircraft Category^1*Weather Condition^1 + -0.000001527 * Latitude^1*Aircraft Category^1*Broad Phase of Flight^1 + 0.000000003 * Latitude^1*Aircraft Category^1*Report Publication Date^1 + 0.000000000 * Latitude^1*Aircraft Category^1*Unnamed: 30^1 + 0.000000000 * Latitude^1*Registration Number^2 + 0.000000000 * Latitude^1*Registration Number^1*Make^1 + -0.000000000 * Latitude^1*Registration Number^1*Model^1 + 0.000000000 * Latitude^1*Registration Number^1*Registration Number^1*Number of Engines^1 + 0.000000000 * Latitude^1*Registration Number^1*Engine Type^1 + -0.000000000 * Latitude^1*Registration Number^1*FAR Description^1 + 0.000000001 * Latitude^1*Registration Number^1*Schedule^1 + 0.000000000 * Latitude^1*Registration Number^1*Purpose of Flight^1 + -0.000000000 * Latitude^1*Registration Number^1*Air Carrier^1 + -0.000000000 * Latitude^1*Registration Number^1*Total Fatal Injuries^1 + 0.000000000 * Latitude^1*Registration Number^1*Total Serious Injuries^1 + -0.000000000 * Latitude^1*Registration Number^1*Total Minor Injuries^1 + -0.000000000 * Latitude^1*Registration Number^1*Weather Condition^1 + 0.000000000 * Latitude^1*Registration Number^1*Broad Phase of Flight^1 + 0.000000000 * Latitude^1*Registration Number^1*Report Publication Date^1 + -

0.000000000 * Latitude^1*Registration Number^1*Unnamed: 30^1 + 0.000000000 *
Latitude^1*Make^2 + 0.000000000 * Latitude^1*Make^1*Model^1 + -0.000000012 *
Latitude^1*Make^1*Amateur Built^1 + -0.000000007 * Latitude^1*Make^1*Number of Engines^1 +
0.000000000 * Latitude^1*Make^1*Engine Type^1 + -0.000000000 * Latitude^1*Make^1*FAR
Description^1 + 0.000000017 * Latitude^1*Make^1*Schedule^1 + 0.000000001 *
Latitude^1*Make^1*Purpose of Flight^1 + -0.000000000 * Latitude^1*Make^1*Air Carrier^1 +
0.000000000 * Latitude^1*Make^1*Total Fatal Injuries^1 + 0.000000000 * Latitude^1*Make^1*Total
Serious Injuries^1 + -0.000000000 * Latitude^1*Make^1*Total Minor Injuries^1 + -0.000000000 *
Latitude^1*Make^1*Total Uninjured^1 + 0.000000003 * Latitude^1*Make^1*Weather Condition^1 + -
0.000000000 * Latitude^1*Make^1*Broad Phase of Flight^1 + 0.000000000 *
Latitude^1*Make^1*Report Publication Date^1 + -0.000000000 * Latitude^1*Make^1*Unnamed: 30^1 +
+ -0.000000000 * Latitude^1*Model^2 + 0.000000001 * Latitude^1*Model^1*Amateur Built^1 +
0.000000001 * Latitude^1*Model^1*Number of Engines^1 + 0.000000001 *
Latitude^1*Model^1*Engine Type^1 + -0.000000000 * Latitude^1*Model^1*FAR Description^1 + -
0.000000004 * Latitude^1*Model^1*Schedule^1 + -0.000000000 * Latitude^1*Model^1*Purpose of
Flight^1 + 0.000000000 * Latitude^1*Model^1*Air Carrier^1 + -0.000000000 *
Latitude^1*Model^1*Total Fatal Injuries^1 + 0.000000000 * Latitude^1*Model^1*Total Serious
Injuries^1 + -0.000000000 * Latitude^1*Model^1*Total Minor Injuries^1 + 0.000000000 *
Latitude^1*Model^1*Total Uninjured^1 + 0.000000001 * Latitude^1*Model^1*Weather Condition^1 +
0.000000000 * Latitude^1*Model^1*Broad Phase of Flight^1 + -0.000000000 *
Latitude^1*Model^1*Report Publication Date^1 + 0.000000000 * Latitude^1*Model^1*Unnamed: 30^1 +
+ -0.000037405 * Latitude^1*Amateur Built^2 + 0.000011782 * Latitude^1*Amateur Built^1*Number of
Engines^1 + -0.000027700 * Latitude^1*Amateur Built^1*Engine Type^1 + -0.000000177 *
Latitude^1*Amateur Built^1*FAR Description^1 + 0.000159246 * Latitude^1*Amateur
Built^1*Schedule^1 + 0.000001465 * Latitude^1*Amateur Built^1*Purpose of Flight^1 + 0.000000491 *
Latitude^1*Amateur Built^1*Air Carrier^1 + -0.000000535 * Latitude^1*Amateur Built^1*Total Fatal
Injuries^1 + -0.000006798 * Latitude^1*Amateur Built^1*Total Serious Injuries^1 + -0.000001412 *
Latitude^1*Amateur Built^1*Total Minor Injuries^1 + 0.000000106 * Latitude^1*Amateur Built^1*Total
Uninjured^1 + 0.000015098 * Latitude^1*Amateur Built^1*Weather Condition^1 + -0.000000337 *
Latitude^1*Amateur Built^1*Broad Phase of Flight^1 + 0.000000022 * Latitude^1*Amateur
Built^1*Report Publication Date^1 + -0.000000000 * Latitude^1*Amateur Built^1*Unnamed: 30^1 + -
0.000002745 * Latitude^1*Number of Engines^2 + 0.000000832 * Latitude^1*Number of
Engines^1*Engine Type^1 + 0.000000899 * Latitude^1*Number of Engines^1*FAR Description^1 + -
0.000017195 * Latitude^1*Number of Engines^1*Schedule^1 + 0.000001146 * Latitude^1*Number of
Engines^1*Purpose of Flight^1 + 0.000000035 * Latitude^1*Number of Engines^1*Air Carrier^1 + -
0.000000167 * Latitude^1*Number of Engines^1*Total Fatal Injuries^1 + 0.000001040 *
Latitude^1*Number of Engines^1*Total Serious Injuries^1 + 0.000001955 * Latitude^1*Number of
Engines^1*Total Minor Injuries^1 + 0.000000112 * Latitude^1*Number of Engines^1*Total Uninjured^1 +
+ -0.000004863 * Latitude^1*Number of Engines^1*Weather Condition^1 + -0.000002957 *
Latitude^1*Number of Engines^1*Broad Phase of Flight^1 + 0.000000010 * Latitude^1*Number of
Engines^1*Report Publication Date^1 + 0.000000000 * Latitude^1*Number of Engines^1*Unnamed:
30^1 + 0.000000672 * Latitude^1*Engine Type^2 + 0.000000780 * Latitude^1*Engine Type^1*FAR
Description^1 + 0.000009600 * Latitude^1*Engine Type^1*Schedule^1 + 0.000000263 *
Latitude^1*Engine Type^1*Purpose of Flight^1 + 0.000000002 * Latitude^1*Engine Type^1*Air

Carrier^1 + 0.000000060 * Latitude^1*Engine Type^1*Total Fatal Injuries^1 + -0.000000017 * Latitude^1*Engine Type^1*Total Serious Injuries^1 + -0.000000318 * Latitude^1*Engine Type^1*Total Minor Injuries^1 + -0.000000100 * Latitude^1*Engine Type^1*Total Uninjured^1 + 0.000002584 * Latitude^1*Engine Type^1*Weather Condition^1 + -0.000001180 * Latitude^1*Engine Type^1*Broad Phase of Flight^1 + -0.000000005 * Latitude^1*Engine Type^1*Report Publication Date^1 + -0.000000000 * Latitude^1*Engine Type^1*Unnamed: 30^1 + 0.000000473 * Latitude^1*FAR Description^2 + -0.000001073 * Latitude^1*FAR Description^1*Schedule^1 + 0.000000084 * Latitude^1*FAR Description^1*Purpose of Flight^1 + 0.000000004 * Latitude^1*FAR Description^1*Air Carrier^1 + -0.000000076 * Latitude^1*FAR Description^1*Total Fatal Injuries^1 + -0.000000231 * Latitude^1*FAR Description^1*Total Serious Injuries^1 + 0.000000225 * Latitude^1*FAR Description^1*Total Minor Injuries^1 + -0.000000002 * Latitude^1*FAR Description^1*Total Uninjured^1 + 0.000001513 * Latitude^1*FAR Description^1*Weather Condition^1 + 0.000000171 * Latitude^1*FAR Description^1*Broad Phase of Flight^1 + -0.000000000 * Latitude^1*FAR Description^1*Report Publication Date^1 + 0.000000000 * Latitude^1*FAR Description^1*Unnamed: 30^1 + -0.000022502 * Latitude^1*Schedule^2 + 0.000001309 * Latitude^1*Schedule^1*Purpose of Flight^1 + -0.000000027 * Latitude^1*Schedule^1*Air Carrier^1 + -0.000000235 * Latitude^1*Schedule^1*Total Fatal Injuries^1 + 0.000005668 * Latitude^1*Schedule^1*Total Serious Injuries^1 + -0.000003808 * Latitude^1*Schedule^1*Total Minor Injuries^1 + 0.000000193 * Latitude^1*Schedule^1*Total Uninjured^1 + -0.000015014 * Latitude^1*Schedule^1*Weather Condition^1 + 0.000006185 * Latitude^1*Schedule^1*Broad Phase of Flight^1 + 0.000000016 * Latitude^1*Schedule^1*Report Publication Date^1 + 0.000000000 * Latitude^1*Schedule^1*Unnamed: 30^1 + -0.000000035 * Latitude^1*Schedule^1*Purpose of Flight^2 + -0.000000046 * Latitude^1*Schedule^1*Purpose of Flight^1*Air Carrier^1 + 0.000000028 * Latitude^1*Schedule^1*Purpose of Flight^1*Total Fatal Injuries^1 + 0.000000089 * Latitude^1*Schedule^1*Purpose of Flight^1*Total Serious Injuries^1 + -0.000000346 * Latitude^1*Schedule^1*Purpose of Flight^1*Total Minor Injuries^1 + 0.000000022 * Latitude^1*Schedule^1*Purpose of Flight^1*Total Uninjured^1 + -0.000000987 * Latitude^1*Schedule^1*Purpose of Flight^1*Weather Condition^1 + 0.000000310 * Latitude^1*Schedule^1*Purpose of Flight^1*Broad Phase of Flight^1 + 0.000000000 * Latitude^1*Schedule^1*Report Publication Date^1 + 0.000000000 * Latitude^1*Schedule^1*Unnamed: 30^1 + 0.000000000 * Latitude^1*Air Carrier^2 + -0.000000003 * Latitude^1*Air Carrier^1*Total Fatal Injuries^1 + 0.000000011 * Latitude^1*Air Carrier^1*Total Serious Injuries^1 + 0.000000005 * Latitude^1*Air Carrier^1*Total Minor Injuries^1 + 0.000000000 * Latitude^1*Air Carrier^1*Total Uninjured^1 + 0.000000011 * Latitude^1*Air Carrier^1*Weather Condition^1 + 0.000000006 * Latitude^1*Air Carrier^1*Broad Phase of Flight^1 + -0.000000000 * Latitude^1*Air Carrier^1*Report Publication Date^1 + 0.000000000 * Latitude^1*Air Carrier^1*Unnamed: 30^1 + -0.000000245 * Latitude^1*Total Fatal Injuries^2 + 0.000000077 * Latitude^1*Total Fatal Injuries^1*Total Serious Injuries^1 + 0.000000191 * Latitude^1*Total Fatal Injuries^1*Total Minor Injuries^1 + -0.000000029 * Latitude^1*Total Fatal Injuries^1*Total Uninjured^1 + 0.000000114 * Latitude^1*Total Fatal Injuries^1*Weather Condition^1 + 0.000000067 * Latitude^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + -0.000000000 * Latitude^1*Total Fatal Injuries^1*Report Publication Date^1 + 0.000000000 * Latitude^1*Total Fatal Injuries^1*Unnamed: 30^1 + -0.000000645 * Latitude^1*Total Serious Injuries^2 + -0.000000058 * Latitude^1*Total Serious Injuries^1*Total Minor Injuries^1 + 0.000000157 * Latitude^1*Total Serious Injuries^1*Total Uninjured^1 + 0.000001275 * Latitude^1*Total Serious Injuries^1*Weather Condition^1 + -0.000000059 * Latitude^1*Total Serious Injuries^1*Broad Phase of Flight^1 + 0.000000003 * Latitude^1*Total Serious Injuries^1*Report

Publication Date^1 + 0.000000000 * Latitude^1*Total Serious Injuries^1*Unnamed: 30^1 + 0.000000001 * Latitude^1*Total Minor Injuries^2 + -0.000000012 * Latitude^1*Total Minor Injuries^1*Total Uninjured^1 + -0.000000406 * Latitude^1*Total Minor Injuries^1*Weather Condition^1 + 0.000000029 * Latitude^1*Total Minor Injuries^1*Broad Phase of Flight^1 + -0.000000003 * Latitude^1*Total Minor Injuries^1*Report Publication Date^1 + -0.000000000 * Latitude^1*Total Minor Injuries^1*Unnamed: 30^1 + 0.000000001 * Latitude^1*Total Uninjured^2 + -0.000000122 * Latitude^1*Total Uninjured^1*Weather Condition^1 + -0.000000017 * Latitude^1*Total Uninjured^1*Broad Phase of Flight^1 + -0.000000000 * Latitude^1*Total Uninjured^1*Report Publication Date^1 + -0.000000000 * Latitude^1*Total Uninjured^1*Unnamed: 30^1 + 0.000008970 * Latitude^1*Weather Condition^2 + 0.000001232 * Latitude^1*Weather Condition^1*Broad Phase of Flight^1 + -0.000000006 * Latitude^1*Weather Condition^1*Report Publication Date^1 + -0.000000000 * Latitude^1*Weather Condition^1*Unnamed: 30^1 + 0.000000219 * Latitude^1*Broad Phase of Flight^2 + 0.000000000 * Latitude^1*Broad Phase of Flight^1*Report Publication Date^1 + 0.000000000 * Latitude^1*Broad Phase of Flight^1*Unnamed: 30^1 + 0.000000000 * Latitude^1*Report Publication Date^2 + 0.000000000 * Latitude^1*Report Publication Date^1*Unnamed: 30^1 + 0.000000000 * Latitude^1*Unnamed: 30^2 + -0.000000000 * Longitude^3 + -0.000000000 * Longitude^2*Aeroport Code^1 + 0.000000000 * Longitude^2*Aeroport Name^1 + 0.000000000 * Longitude^2*Injury Severity^1 + -0.000000000 * Longitude^2*Aircraft Category^1 + -0.000000000 * Longitude^2*Registration Number^1 + -0.000000000 * Longitude^2*Make^1 + -0.000000000 * Longitude^2*Model^1 + -0.000000007 * Longitude^2*Amateur Built^1 + 0.000000000 * Longitude^2*Number of Engines^1 + -0.000000001 * Longitude^2*Engine Type^1 + 0.000000000 * Longitude^2*FAR Description^1 + 0.000000005 * Longitude^2*Schedule^1 + 0.000000000 * Longitude^2*Purpose of Flight^1 + -0.000000000 * Longitude^2*Air Carrier^1 + -0.000000000 * Longitude^2*Total Fatal Injuries^1 + -0.000000000 * Longitude^2*Total Serious Injuries^1 + -0.000000000 * Longitude^2*Total Minor Injuries^1 + 0.000000000 * Longitude^2*Total Uninjured^1 + -0.000000000 * Longitude^2*Weather Condition^1 + -0.000000001 * Longitude^2*Broad Phase of Flight^1 + 0.000000000 * Longitude^2*Report Publication Date^1 + -0.000000000 * Longitude^2*Unnamed: 30^1 + 0.000000000 * Longitude^1*Aeroport Code^2 + -0.000000000 * Longitude^1*Aeroport Code^1*Aeroport Name^1 + 0.000000000 * Longitude^1*Aeroport Code^1*Injury Severity^1 + 0.000000002 * Longitude^1*Aeroport Code^1*Aircraft Category^1 + 0.000000000 * Longitude^1*Aeroport Code^1*Registration Number^1 + 0.000000000 * Longitude^1*Aeroport Code^1*Make^1 + -0.000000000 * Longitude^1*Aeroport Code^1*Model^1 + -0.000000003 * Longitude^1*Aeroport Code^1*Amateur Built^1 + 0.000000001 * Longitude^1*Aeroport Code^1*Number of Engines^1 + -0.000000001 * Longitude^1*Aeroport Code^1*Engine Type^1 + -0.000000000 * Longitude^1*Aeroport Code^1*FAR Description^1 + 0.000000008 * Longitude^1*Aeroport Code^1*Schedule^1 + 0.000000000 * Longitude^1*Aeroport Code^1*Purpose of Flight^1 + -0.000000000 * Longitude^1*Aeroport Code^1*Air Carrier^1 + -0.000000000 * Longitude^1*Aeroport Code^1*Total Fatal Injuries^1 + 0.000000000 * Longitude^1*Aeroport Code^1*Total Serious Injuries^1 + 0.000000000 * Longitude^1*Aeroport Code^1*Total Minor Injuries^1 + 0.000000000 * Longitude^1*Aeroport Code^1*Total Uninjured^1 + -0.000000001 * Longitude^1*Aeroport Code^1*Weather Condition^1 + -0.000000000 * Longitude^1*Aeroport Code^1*Broad Phase of Flight^1 + -0.000000000 * Longitude^1*Aeroport Code^1*Report Publication Date^1 + 0.000000000 * Longitude^1*Aeroport Code^1*Unnamed: 30^1 + -0.000000000 * Longitude^1*Aeroport Name^2 + -0.000000000 * Longitude^1*Aeroport Name^1*Injury Severity^1 + -0.000000001 * Longitude^1*Aeroport Name^1*Aeroport Category^1 + -0.000000000 * Longitude^1*Aeroport Name^1*Aeroport Model^1

Longitude^1*Airport Name^1*Registration Number^1 + 0.000000000 * Longitude^1*Airport
Name^1*Make^1 + -0.000000000 * Longitude^1*Airport Name^1*Model^1 + -0.000000000 *
Longitude^1*Airport Name^1*Amateur Built^1 + -0.000000000 * Longitude^1*Airport
Name^1*Number of Engines^1 + 0.000000000 * Longitude^1*Airport Name^1*Engine Type^1 +
0.000000000 * Longitude^1*Airport Name^1*FAR Description^1 + -0.000000004 * Longitude^1*Airport
Name^1*Schedule^1 + -0.000000000 * Longitude^1*Airport Name^1*Purpose of Flight^1 +
0.000000000 * Longitude^1*Airport Name^1*Air Carrier^1 + 0.000000000 * Longitude^1*Airport
Name^1*Total Fatal Injuries^1 + 0.000000000 * Longitude^1*Airport Name^1*Total Serious Injuries^1 +
0.000000000 * Longitude^1*Airport Name^1*Total Minor Injuries^1 + 0.000000000 *
Longitude^1*Airport Name^1*Total Uninjured^1 + -0.000000002 * Longitude^1*Airport
Name^1*Weather Condition^1 + 0.000000000 * Longitude^1*Airport Name^1*Broad Phase of Flight^1
+ 0.000000000 * Longitude^1*Airport Name^1*Report Publication Date^1 + 0.000000000 *
Longitude^1*Airport Name^1*Unnamed: 30^1 + 0.000000214 * Longitude^1*Injury Severity^2 +
0.000000235 * Longitude^1*Injury Severity^1*Aircraft Category^1 + 0.000000000 * Longitude^1*Injury
Severity^1*Registration Number^1 + -0.000000000 * Longitude^1*Injury Severity^1*Make^1 +
0.000000000 * Longitude^1*Injury Severity^1*Model^1 + 0.000000027 * Longitude^1*Injury
Severity^1*Amateur Built^1 + 0.000000027 * Longitude^1*Injury Severity^1*Number of Engines^1 + -
0.000000023 * Longitude^1*Injury Severity^1*Engine Type^1 + -0.000000020 * Longitude^1*Injury
Severity^1*FAR Description^1 + 0.000000106 * Longitude^1*Injury Severity^1*Schedule^1 + -
0.000000008 * Longitude^1*Injury Severity^1*Purpose of Flight^1 + 0.000000001 * Longitude^1*Injury
Severity^1*Air Carrier^1 + -0.000000309 * Longitude^1*Injury Severity^1*Total Fatal Injuries^1 +
0.000000086 * Longitude^1*Injury Severity^1*Total Serious Injuries^1 + -0.000000023 *
Longitude^1*Injury Severity^1*Total Minor Injuries^1 + 0.000000007 * Longitude^1*Injury
Severity^1*Total Uninjured^1 + -0.000000290 * Longitude^1*Injury Severity^1*Weather Condition^1 +
0.000000050 * Longitude^1*Injury Severity^1*Broad Phase of Flight^1 + -0.000000000 *
Longitude^1*Injury Severity^1*Report Publication Date^1 + -0.000000000 * Longitude^1*Injury
Severity^1*Unnamed: 30^1 + 0.000001673 * Longitude^1*Aircraft Category^2 + -0.000000000 *
Longitude^1*Aircraft Category^1*Registration Number^1 + 0.000000001 * Longitude^1*Aircraft
Category^1*Make^1 + -0.000000001 * Longitude^1*Aircraft Category^1*Model^1 + -0.000003259 *
Longitude^1*Aircraft Category^1*Amateur Built^1 + 0.000000411 * Longitude^1*Aircraft
Category^1*Number of Engines^1 + -0.000001589 * Longitude^1*Aircraft Category^1*Engine Type^1 +
0.000000766 * Longitude^1*Aircraft Category^1*FAR Description^1 + -0.000001204 *
Longitude^1*Aircraft Category^1*Schedule^1 + 0.000000237 * Longitude^1*Aircraft
Category^1*Purpose of Flight^1 + 0.000000023 * Longitude^1*Aircraft Category^1*Air Carrier^1 +
0.000000416 * Longitude^1*Aircraft Category^1*Total Fatal Injuries^1 + -0.000002244 *
Longitude^1*Aircraft Category^1*Total Serious Injuries^1 + -0.000000422 * Longitude^1*Aircraft
Category^1*Total Minor Injuries^1 + 0.000000010 * Longitude^1*Aircraft Category^1*Total
Uninjured^1 + -0.000008719 * Longitude^1*Aircraft Category^1*Weather Condition^1 + 0.000000340 *
Longitude^1*Aircraft Category^1*Broad Phase of Flight^1 + -0.000000003 * Longitude^1*Aircraft
Category^1*Report Publication Date^1 + -0.000000000 * Longitude^1*Aircraft Category^1*Unnamed:
30^1 + -0.000000000 * Longitude^1*Registration Number^2 + -0.000000000 *
Longitude^1*Registration Number^1*Make^1 + 0.000000000 * Longitude^1*Registration
Number^1*Model^1 + 0.000000000 * Longitude^1*Registration Number^1*Amateur Built^1 + -
0.000000000 * Longitude^1*Registration Number^1*Number of Engines^1 + 0.000000000 *

Longitude^1*Registration Number^1*Engine Type^1 + 0.000000000 * Longitude^1*Registration Number^1*FAR Description^1 + -0.000000001 * Longitude^1*Registration Number^1*Schedule^1 + -0.000000000 * Longitude^1*Registration Number^1*Purpose of Flight^1 + 0.000000000 * Longitude^1*Registration Number^1*Air Carrier^1 + 0.000000000 * Longitude^1*Registration Number^1*Total Fatal Injuries^1 + -0.000000000 * Longitude^1*Registration Number^1*Total Serious Injuries^1 + 0.000000000 * Longitude^1*Registration Number^1*Total Minor Injuries^1 + 0.000000000 * Longitude^1*Registration Number^1*Total Uninjured^1 + 0.000000000 * Longitude^1*Registration Number^1*Weather Condition^1 + 0.000000000 * Longitude^1*Registration Number^1*Broad Phase of Flight^1 + 0.000000000 * Longitude^1*Registration Number^1*Report Publication Date^1 + -0.000000000 * Longitude^1*Registration Number^1*Unnamed: 30^1 + -0.000000000 * Longitude^1*Make^2 + 0.000000000 * Longitude^1*Make^1*Model^1 + 0.000000015 * Longitude^1*Make^1*Amateur Built^1 + 0.000000004 * Longitude^1*Make^1*Number of Engines^1 + -0.000000001 * Longitude^1*Make^1*Engine Type^1 + -0.000000000 * Longitude^1*Make^1*FAR Description^1 + -0.000000019 * Longitude^1*Make^1*Schedule^1 + -0.000000001 * Longitude^1*Make^1*Purpose of Flight^1 + 0.000000000 * Longitude^1*Make^1*Air Carrier^1 + -0.000000000 * Longitude^1*Make^1*Total Fatal Injuries^1 + -0.000000000 * Longitude^1*Make^1*Total Serious Injuries^1 + 0.000000000 * Longitude^1*Make^1*Total Minor Injuries^1 + 0.000000000 * Longitude^1*Make^1*Total Uninjured^1 + 0.000000000 * Longitude^1*Make^1*Weather Condition^1 + 0.000000000 * Longitude^1*Make^1*Broad Phase of Flight^1 + 0.000000000 * Longitude^1*Make^1*Report Publication Date^1 + 0.000000000 * Longitude^1*Make^1*Unnamed: 30^1 + -0.000000000 * Longitude^1*Model^2 + -0.000000003 * Longitude^1*Model^1*Amateur Built^1 + 0.000000003 * Longitude^1*Model^1*Number of Engines^1 + -0.000000001 * Longitude^1*Model^1*Engine Type^1 + 0.000000000 * Longitude^1*Model^1*FAR Description^1 + 0.000000005 * Longitude^1*Model^1*Schedule^1 + 0.000000000 * Longitude^1*Model^1*Purpose of Flight^1 + -0.000000000 * Longitude^1*Model^1*Air Carrier^1 + 0.000000000 * Longitude^1*Model^1*Total Fatal Injuries^1 + 0.000000000 * Longitude^1*Model^1*Total Serious Injuries^1 + 0.000000000 * Longitude^1*Model^1*Total Minor Injuries^1 + 0.000000000 * Longitude^1*Model^1*Total Uninjured^1 + -0.000000001 * Longitude^1*Model^1*Weather Condition^1 + 0.000000000 * Longitude^1*Model^1*Broad Phase of Flight^1 + 0.000000000 * Longitude^1*Model^1*Report Publication Date^1 + -0.000000000 * Longitude^1*Model^1*Unnamed: 30^1 + 0.000025998 * Longitude^1*Amateur Built^2 + 0.000001318 * Longitude^1*Amateur Built^1*Number of Engines^1 + 0.000006158 * Longitude^1*Amateur Built^1*Engine Type^1 + 0.000000960 * Longitude^1*Amateur Built^1*FAR Description^1 + -0.000205611 * Longitude^1*Amateur Built^1*Schedule^1 + -0.000002445 * Longitude^1*Amateur Built^1*Purpose of Flight^1 + 0.000000334 * Longitude^1*Amateur Built^1*Air Carrier^1 + 0.000000740 * Longitude^1*Amateur Built^1*Total Fatal Injuries^1 + -0.000000382 * Longitude^1*Amateur Built^1*Total Serious Injuries^1 + 0.000000445 * Longitude^1*Amateur Built^1*Total Minor Injuries^1 + -0.000000044 * Longitude^1*Amateur Built^1*Total Uninjured^1 + -0.000001545 * Longitude^1*Amateur Built^1*Weather Condition^1 + 0.000001585 * Longitude^1*Amateur Built^1*Broad Phase of Flight^1 + -0.000000041 * Longitude^1*Amateur Built^1*Report Publication Date^1 + 0.000000000 * Longitude^1*Amateur Built^1*Unnamed: 30^1 + -0.000000246 * Longitude^1*Number of Engines^2 + -0.000004440 * Longitude^1*Number of Engines^1*Engine Type^1 + -0.000001265 * Longitude^1*Number of Engines^1*FAR Description^1 + 0.000000703 * Longitude^1*Number of Engines^1*Schedule^1 + -0.000000929 * Longitude^1*Number

of Engines^1*Purpose of Flight^1 + -0.000000030 * Longitude^1*Number of Engines^1*Air Carrier^1 + 0.000000089 * Longitude^1*Number of Engines^1*Total Fatal Injuries^1 + -0.000001575 * Longitude^1*Number of Engines^1*Total Serious Injuries^1 + -0.000000523 * Longitude^1*Number of Engines^1*Total Minor Injuries^1 + 0.000000076 * Longitude^1*Number of Engines^1*Total Uninjured^1 + 0.000001738 * Longitude^1*Number of Engines^1*Weather Condition^1 + 0.000003119 * Longitude^1*Number of Engines^1*Broad Phase of Flight^1 + -0.000000005 * Longitude^1*Number of Engines^1*Report Publication Date^1 + 0.000000000 * Longitude^1*Number of Engines^1*Unnamed: 30^1 + -0.000001345 * Longitude^1*Engine Type^2 + 0.000000061 * Longitude^1*Engine Type^1*FAR Description^1 + -0.000003359 * Longitude^1*Engine Type^1*Schedule^1 + -0.000000634 * Longitude^1*Engine Type^1*Purpose of Flight^1 + -0.000000009 * Longitude^1*Engine Type^1*Air Carrier^1 + -0.000000315 * Longitude^1*Engine Type^1*Total Fatal Injuries^1 + -0.000000241 * Longitude^1*Engine Type^1*Total Serious Injuries^1 + -0.000000537 * Longitude^1*Engine Type^1*Total Minor Injuries^1 + 0.000000002 * Longitude^1*Engine Type^1*Total Uninjured^1 + 0.000001098 * Longitude^1*Engine Type^1*Weather Condition^1 + -0.000000367 * Longitude^1*Engine Type^1*Broad Phase of Flight^1 + 0.000000001 * Longitude^1*Engine Type^1*Report Publication Date^1 + -0.000000000 * Longitude^1*Engine Type^1*Unnamed: 30^1 + 0.000000001 * Longitude^1*FAR Description^2 + -0.000000290 * Longitude^1*FAR Description^1*Schedule^1 + -0.000000120 * Longitude^1*FAR Description^1*Purpose of Flight^1 + -0.000000006 * Longitude^1*FAR Description^1*Air Carrier^1 + -0.000000008 * Longitude^1*FAR Description^1*Total Fatal Injuries^1 + 0.000000582 * Longitude^1*FAR Description^1*Total Serious Injuries^1 + 0.000000179 * Longitude^1*FAR Description^1*Total Minor Injuries^1 + -0.000000000 * Longitude^1*FAR Description^1*Total Uninjured^1 + -0.000000645 * Longitude^1*FAR Description^1*Weather Condition^1 + -0.000000065 * Longitude^1*FAR Description^1*Broad Phase of Flight^1 + -0.000000000 * Longitude^1*FAR Description^1*Report Publication Date^1 + 0.000000000 * Longitude^1*FAR Description^1*Unnamed: 30^1 + -0.000009390 * Longitude^1*Schedule^2 + 0.000001989 * Longitude^1*Schedule^1*Purpose of Flight^1 + 0.000000024 * Longitude^1*Schedule^1*Air Carrier^1 + -0.000000023 * Longitude^1*Schedule^1*Total Fatal Injuries^1 + 0.000003302 * Longitude^1*Schedule^1*Total Serious Injuries^1 + 0.000004332 * Longitude^1*Schedule^1*Total Minor Injuries^1 + -0.000000033 * Longitude^1*Schedule^1*Total Uninjured^1 + 0.000008752 * Longitude^1*Schedule^1*Weather Condition^1 + -0.000000231 * Longitude^1*Schedule^1*Broad Phase of Flight^1 + 0.000000007 * Longitude^1*Schedule^1*Report Publication Date^1 + 0.000000000 * Longitude^1*Schedule^1*Unnamed: 30^1 + -0.000000039 * Longitude^1*Purpose of Flight^2 + 0.000000052 * Longitude^1*Purpose of Flight^1*Air Carrier^1 + -0.000000003 * Longitude^1*Purpose of Flight^1*Total Fatal Injuries^1 + 0.000000120 * Longitude^1*Purpose of Flight^1*Total Serious Injuries^1 + 0.000000348 * Longitude^1*Purpose of Flight^1*Total Minor Injuries^1 + -0.000000016 * Longitude^1*Purpose of Flight^1*Total Uninjured^1 + -0.000001501 * Longitude^1*Purpose of Flight^1*Weather Condition^1 + 0.000000083 * Longitude^1*Purpose of Flight^1*Broad Phase of Flight^1 + 0.000000000 * Longitude^1*Purpose of Flight^1*Report Publication Date^1 + -0.000000000 * Longitude^1*Purpose of Flight^1*Unnamed: 30^1 + 0.000000000 * Longitude^1*Air Carrier^2 + 0.000000004 * Longitude^1*Air Carrier^1*Total Fatal Injuries^1 + -0.000000008 * Longitude^1*Air Carrier^1*Total Serious Injuries^1 + -0.000000007 * Longitude^1*Air Carrier^1*Total Minor Injuries^1 + -0.000000000 * Longitude^1*Air Carrier^1*Total Uninjured^1 + -0.000000035 * Longitude^1*Air Carrier^1*Weather Condition^1 + -0.000000005 * Longitude^1*Air Carrier^1*Broad Phase of Flight^1 + 0.000000000 * Longitude^1*Air Carrier^1*Report

Publication Date^1 + -0.000000000 * Longitude^1*Air Carrier^1*Unnamed: 30^1 + 0.000000125 * Longitude^1*Total Fatal Injuries^2 + -0.000000001 * Longitude^1*Total Fatal Injuries^1*Total Serious Injuries^1 + 0.000000090 * Longitude^1*Total Fatal Injuries^1*Total Minor Injuries^1 + 0.000000014 * Longitude^1*Total Fatal Injuries^1*Total Uninjured^1 + 0.000000067 * Longitude^1*Total Fatal Injuries^1*Weather Condition^1 + 0.000000036 * Longitude^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + 0.000000000 * Longitude^1*Total Fatal Injuries^1*Report Publication Date^1 + -0.000000000 * Longitude^1*Total Fatal Injuries^1*Unnamed: 30^1 + -0.000000521 * Longitude^1*Total Serious Injuries^2 + -0.000000259 * Longitude^1*Total Serious Injuries^1*Total Minor Injuries^1 + -0.000000095 * Longitude^1*Total Serious Injuries^1*Total Uninjured^1 + -0.000001153 * Longitude^1*Total Serious Injuries^1*Weather Condition^1 + 0.000000345 * Longitude^1*Total Serious Injuries^1*Broad Phase of Flight^1 + -0.000000006 * Longitude^1*Total Serious Injuries^1*Report Publication Date^1 + -0.000000000 * Longitude^1*Total Serious Injuries^1*Unnamed: 30^1 + 0.000000005 * Longitude^1*Total Minor Injuries^2 + 0.000000003 * Longitude^1*Total Minor Injuries^1*Total Uninjured^1 + -0.000001016 * Longitude^1*Total Minor Injuries^1*Weather Condition^1 + 0.000000155 * Longitude^1*Total Minor Injuries^1*Broad Phase of Flight^1 + 0.000000001 * Longitude^1*Total Minor Injuries^1*Report Publication Date^1 + -0.000000000 * Longitude^1*Total Minor Injuries^1*Unnamed: 30^1 + -0.000000000 * Longitude^1*Total Uninjured^2 + 0.000000126 * Longitude^1*Total Uninjured^1*Weather Condition^1 + -0.000000019 * Longitude^1*Total Uninjured^1*Broad Phase of Flight^1 + -0.000000000 * Longitude^1*Total Uninjured^1*Report Publication Date^1 + -0.000000000 * Longitude^1*Total Uninjured^1*Unnamed: 30^1 + 0.000016693 * Longitude^1*Weather Condition^2 + -0.000001689 * Longitude^1*Weather Condition^1*Broad Phase of Flight^1 + 0.000000010 * Longitude^1*Weather Condition^1*Report Publication Date^1 + 0.000000000 * Longitude^1*Weather Condition^1*Unnamed: 30^1 + 0.000000207 * Longitude^1*Broad Phase of Flight^2 + -0.000000000 * Longitude^1*Broad Phase of Flight^1*Report Publication Date^1 + -0.000000000 * Longitude^1*Broad Phase of Flight^1*Unnamed: 30^1 + -0.000000000 * Longitude^1*Report Publication Date^2 + 0.000000000 * Longitude^1*Report Publication Date^1*Unnamed: 30^1 + -0.000000000 * Longitude^1*Uninjured: 30^2 + -0.000000000 * Airport Code^3 + 0.000000000 * Airport Code^2*Airport Name^1 + -0.000000000 * Airport Code^2*Injury Severity^1 + -0.000000002 * Airport Code^2*Aircraft Category^1 + 0.000000000 * Airport Code^2*Registration Number^1 + 0.000000000 * Airport Code^2*Make^1 + -0.000000000 * Airport Code^2*Model^1 + -0.000000007 * Airport Code^2*Amateur Built^1 + -0.000000003 * Airport Code^2*Number of Engines^1 + -0.000000003 * Airport Code^2*Engine Type^1 + 0.000000000 * Airport Code^2*FAR Description^1 + -0.000000000 * Airport Code^2*Schedule^1 + -0.000000000 * Airport Code^2*Purpose of Flight^1 + -0.000000000 * Airport Code^2*Air Carrier^1 + -0.000000000 * Airport Code^2*Total Fatal Injuries^1 + -0.000000001 * Airport Code^2*Total Serious Injuries^1 + -0.000000000 * Airport Code^2*Total Minor Injuries^1 + 0.000000000 * Airport Code^2*Total Uninjured^1 + -0.000000000 * Airport Code^2*Weather Condition^1 + 0.000000000 * Airport Code^2*Broad Phase of Flight^1 + -0.000000000 * Airport Code^2*Report Publication Date^1 + -0.000000000 * Airport Code^2*Unnamed: 30^1 + 0.000000000 * Airport Code^1*Airport Name^2 + -0.000000000 * Airport Code^1*Airport Name^1*Injury Severity^1 + 0.000000001 * Airport Code^1*Airport Name^1*Aircraft Category^1 + -0.000000000 * Airport Code^1*Airport Name^1*Registration Number^1 + -0.000000000 * Airport Code^1*Airport Name^1*Make^1 + 0.000000000 * Airport Code^1*Airport Name^1*Model^1 + -0.000000000 * Airport Code^1*Airport Name^1*Amateur Built^1 + -0.000000001 * Airport Code^1*Airport Name^1*Number of Engines^1 +

0.000000000 * Airport Code^1*Airport Name^1*Engine Type^1 + -0.000000000 * Airport
Code^1*Airport Name^1*FAR Description^1 + 0.000000001 * Airport Code^1*Airport
Name^1*Schedule^1 + -0.000000000 * Airport Code^1*Airport Name^1*Purpose of Flight^1 + -
0.000000000 * Airport Code^1*Airport Name^1*Air Carrier^1 + -0.000000000 * Airport Code^1*Airport
Name^1*Total Fatal Injuries^1 + -0.000000000 * Airport Code^1*Airport Name^1*Total Serious
Injuries^1 + -0.000000000 * Airport Code^1*Airport Name^1*Total Minor Injuries^1 + 0.000000000 *
Airport Code^1*Airport Name^1*Total Uninjured^1 + -0.000000000 * Airport Code^1*Airport
Name^1*Weather Condition^1 + -0.000000000 * Airport Code^1*Airport Name^1*Broad Phase of
Flight^1 + -0.000000000 * Airport Code^1*Airport Name^1*Report Publication Date^1 + 0.000000000 *
Airport Code^1*Airport Name^1*Unnamed: 30^1 + 0.000000012 * Airport Code^1*Injury Severity^2 + -
0.000000178 * Airport Code^1*Injury Severity^1*Aircraft Category^1 + 0.000000000 * Airport
Code^1*Injury Severity^1*Registration Number^1 + -0.000000000 * Airport Code^1*Injury
Severity^1*Make^1 + -0.000000000 * Airport Code^1*Injury Severity^1*Model^1 + 0.000000056 *
Airport Code^1*Injury Severity^1*Amateur Built^1 + 0.000000152 * Airport Code^1*Injury
Severity^1*Number of Engines^1 + 0.000000065 * Airport Code^1*Injury Severity^1*Engine Type^1 +
0.000000024 * Airport Code^1*Injury Severity^1*FAR Description^1 + 0.000000092 * Airport
Code^1*Injury Severity^1*Schedule^1 + 0.000000027 * Airport Code^1*Injury Severity^1*Purpose of
Flight^1 + -0.000000000 * Airport Code^1*Injury Severity^1*Air Carrier^1 + 0.000000001 * Airport
Code^1*Injury Severity^1*Total Fatal Injuries^1 + 0.000000014 * Airport Code^1*Injury
Severity^1*Total Serious Injuries^1 + 0.000000053 * Airport Code^1*Injury Severity^1*Total Minor
Injuries^1 + -0.000000000 * Airport Code^1*Injury Severity^1*Total Uninjured^1 + -0.000000123 *
Airport Code^1*Injury Severity^1*Weather Condition^1 + -0.000000022 * Airport Code^1*Injury
Severity^1*Broad Phase of Flight^1 + 0.000000000 * Airport Code^1*Injury Severity^1*Report
Publication Date^1 + -0.000000000 * Airport Code^1*Injury Severity^1*Unnamed: 30^1 + 0.000006802
* Airport Code^1*Aircraft Category^2 + -0.000000000 * Airport Code^1*Aircraft
Category^1*Registration Number^1 + 0.000000006 * Airport Code^1*Aircraft Category^1*Make^1 + -
0.000000000 * Airport Code^1*Aircraft Category^1*Model^1 + 0.000005839 * Airport Code^1*Aircraft
Category^1*Amateur Built^1 + -0.000022974 * Airport Code^1*Aircraft Category^1*Number of
Engines^1 + -0.000002681 * Airport Code^1*Aircraft Category^1*Engine Type^1 + 0.000006775 *
Airport Code^1*Aircraft Category^1*FAR Description^1 + 0.000007375 * Airport Code^1*Aircraft
Category^1*Schedule^1 + -0.000003407 * Airport Code^1*Aircraft Category^1*Purpose of Flight^1 +
0.000000026 * Airport Code^1*Aircraft Category^1*Air Carrier^1 + -0.000001293 * Airport
Code^1*Aircraft Category^1*Total Fatal Injuries^1 + 0.000004252 * Airport Code^1*Aircraft
Category^1*Total Serious Injuries^1 + 0.000000129 * Airport Code^1*Aircraft Category^1*Total Minor
Injuries^1 + 0.000000122 * Airport Code^1*Aircraft Category^1*Total Uninjured^1 + -0.000011962 *
Airport Code^1*Aircraft Category^1*Weather Condition^1 + -0.000000384 * Airport Code^1*Aircraft
Category^1*Broad Phase of Flight^1 + 0.000000017 * Airport Code^1*Aircraft Category^1*Report
Publication Date^1 + -0.000000000 * Airport Code^1*Aircraft Category^1*Unnamed: 30^1 + -
0.000000000 * Airport Code^1*Registration Number^2 + -0.000000000 * Airport Code^1*Registration
Number^1*Make^1 + 0.000000000 * Airport Code^1*Registration Number^1*Model^1 + 0.000000000
* Airport Code^1*Registration Number^1*Amateur Built^1 + 0.000000000 * Airport
Code^1*Registration Number^1*Number of Engines^1 + 0.000000000 * Airport Code^1*Registration
Number^1*Engine Type^1 + 0.000000000 * Airport Code^1*Registration Number^1*FAR Description^1
+ -0.000000000 * Airport Code^1*Registration Number^1*Schedule^1 + -0.000000000 * Airport

Code^1*Registration Number^1*Purpose of Flight^1 + 0.000000000 * Airport Code^1*Registration Number^1*Air Carrier^1 + 0.000000000 * Airport Code^1*Registration Number^1*Total Fatal Injuries^1 + -0.000000000 * Airport Code^1*Registration Number^1*Total Serious Injuries^1 + -0.000000000 * Airport Code^1*Registration Number^1*Total Minor Injuries^1 + 0.000000000 * Airport Code^1*Registration Number^1*Total Uninjured^1 + 0.000000000 * Airport Code^1*Registration Number^1*Weather Condition^1 + -0.000000000 * Airport Code^1*Registration Number^1*Broad Phase of Flight^1 + -0.000000000 * Airport Code^1*Registration Number^1*Report Publication Date^1 + 0.000000000 * Airport Code^1*Registration Number^1*Unnamed: 30^1 + -0.000000000 * Airport Code^1*Make^2 + 0.000000000 * Airport Code^1*Make^1*Model^1 + 0.000000000 * Airport Code^1*Make^1*Amateur Built^1 + 0.000000001 * Airport Code^1*Make^1*Number of Engines^1 + -0.000000001 * Airport Code^1*Make^1*Engine Type^1 + -0.000000001 * Airport Code^1*Make^1*FAR Description^1 + -0.000000001 * Airport Code^1*Make^1*Schedule^1 + -0.000000000 * Airport Code^1*Make^1*Purpose of Flight^1 + 0.000000000 * Airport Code^1*Make^1*Air Carrier^1 + -0.000000000 * Airport Code^1*Make^1*Total Fatal Injuries^1 + -0.000000000 * Airport Code^1*Make^1*Total Serious Injuries^1 + 0.000000000 * Airport Code^1*Make^1*Total Minor Injuries^1 + -0.000000000 * Airport Code^1*Make^1*Total Uninjured^1 + 0.000000002 * Airport Code^1*Make^1*Weather Condition^1 + 0.000000000 * Airport Code^1*Make^1*Broad Phase of Flight^1 + -0.000000000 * Airport Code^1*Make^1*Report Publication Date^1 + 0.000000000 * Airport Code^1*Make^1*Unnamed: 30^1 + 0.000000000 * Airport Code^1*Model^2 + -0.000000003 * Airport Code^1*Model^1*Amateur Built^1 + -0.000000001 * Airport Code^1*Model^1*Number of Engines^1 + -0.000000000 * Airport Code^1*Model^1*Engine Type^1 + 0.000000000 * Airport Code^1*Model^1*FAR Description^1 + -0.000000001 * Airport Code^1*Model^1*Schedule^1 + -0.000000000 * Airport Code^1*Model^1*Purpose of Flight^1 + -0.000000000 * Airport Code^1*Model^1*Air Carrier^1 + -0.000000000 * Airport Code^1*Model^1*Total Fatal Injuries^1 + 0.000000000 * Airport Code^1*Model^1*Total Serious Injuries^1 + -0.000000000 * Airport Code^1*Model^1*Total Minor Injuries^1 + 0.000000000 * Airport Code^1*Model^1*Total Uninjured^1 + -0.000000000 * Airport Code^1*Model^1*Weather Condition^1 + -0.000000000 * Airport Code^1*Model^1*Broad Phase of Flight^1 + -0.000000000 * Airport Code^1*Model^1*Report Publication Date^1 + 0.000000000 * Airport Code^1*Model^1*Unnamed: 30^1 + -0.000134164 * Airport Code^1*Amateur Built^2 + 0.000021355 * Airport Code^1*Amateur Built^1*Number of Engines^1 + -0.000001495 * Airport Code^1*Amateur Built^1*Engine Type^1 + 0.000001472 * Airport Code^1*Amateur Built^1*FAR Description^1 + -0.000005569 * Airport Code^1*Amateur Built^1*Schedule^1 + 0.000000101 * Airport Code^1*Amateur Built^1*Purpose of Flight^1 + -0.000000018 * Airport Code^1*Amateur Built^1*Air Carrier^1 + 0.000000460 * Airport Code^1*Amateur Built^1*Total Fatal Injuries^1 + 0.000000827 * Airport Code^1*Amateur Built^1*Total Serious Injuries^1 + -0.000001760 * Airport Code^1*Amateur Built^1*Total Minor Injuries^1 + -0.000000175 * Airport Code^1*Amateur Built^1*Total Uninjured^1 + -0.000020183 * Airport Code^1*Amateur Built^1*Weather Condition^1 + 0.000001006 * Airport Code^1*Amateur Built^1*Broad Phase of Flight^1 + 0.000000014 * Airport Code^1*Amateur Built^1*Report Publication Date^1 + -0.000000000 * Airport Code^1*Amateur Built^1*Unnamed: 30^1 + -0.000002852 * Airport Code^1*Number of Engines^2 + -0.000003071 * Airport Code^1*Number of Engines^1*Engine Type^1 + 0.000002440 * Airport Code^1*Number of Engines^1*FAR Description^1 + 0.000011444 * Airport Code^1*Number of Engines^1*Schedule^1 + -0.000000132 * Airport Code^1*Number of Engines^1*Purpose of Flight^1 + -0.000000019 * Airport Code^1*Number of Engines^1*Air Carrier^1 + -

0.000000097 * Airport Code^1*Number of Engines^1*Total Fatal Injuries^1 + -0.000002233 * Airport Code^1*Number of Engines^1*Total Serious Injuries^1 + -0.000001412 * Airport Code^1*Number of Engines^1*Total Minor Injuries^1 + -0.000000026 * Airport Code^1*Number of Engines^1*Total Uninjured^1 + -0.000010856 * Airport Code^1*Number of Engines^1*Weather Condition^1 + -0.000000542 * Airport Code^1*Number of Engines^1*Broad Phase of Flight^1 + -0.000000007 * Airport Code^1*Number of Engines^1*Report Publication Date^1 + -0.000000000 * Airport Code^1*Number of Engines^1*Unnamed: 30^1 + 0.000000528 * Airport Code^1*Engine Type^2 + 0.000000663 * Airport Code^1*Engine Type^1*FAR Description^1 + -0.000003359 * Airport Code^1*Engine Type^1*Schedule^1 + 0.000000424 * Airport Code^1*Engine Type^1*Purpose of Flight^1 + 0.000000012 * Airport Code^1*Engine Type^1*Air Carrier^1 + -0.000000021 * Airport Code^1*Engine Type^1*Total Fatal Injuries^1 + -0.000001019 * Airport Code^1*Engine Type^1*Total Serious Injuries^1 + -0.000000297 * Airport Code^1*Engine Type^1*Total Minor Injuries^1 + -0.000000039 * Airport Code^1*Engine Type^1*Total Uninjured^1 + -0.000003093 * Airport Code^1*Engine Type^1*Weather Condition^1 + 0.000000379 * Airport Code^1*Engine Type^1*Broad Phase of Flight^1 + -0.000000004 * Airport Code^1*Engine Type^1*Report Publication Date^1 + 0.000000000 * Airport Code^1*Engine Type^1*Unnamed: 30^1 + -0.000002171 * Airport Code^1*FAR Description^2 + -0.000002255 * Airport Code^1*FAR Description^1*Schedule^1 + 0.000000375 * Airport Code^1*FAR Description^1*Purpose of Flight^1 + -0.000000003 * Airport Code^1*FAR Description^1*Air Carrier^1 + 0.000000020 * Airport Code^1*FAR Description^1*Total Fatal Injuries^1 + -0.000000278 * Airport Code^1*FAR Description^1*Total Serious Injuries^1 + -0.000000033 * Airport Code^1*FAR Description^1*Total Minor Injuries^1 + -0.000000013 * Airport Code^1*FAR Description^1*Total Uninjured^1 + 0.000001113 * Airport Code^1*FAR Description^1*Weather Condition^1 + -0.000000083 * Airport Code^1*FAR Description^1*Broad Phase of Flight^1 + -0.000000001 * Airport Code^1*FAR Description^1*Report Publication Date^1 + -0.000000000 * Airport Code^1*FAR Description^1*Unnamed: 30^1 + 0.000013527 * Airport Code^1*Schedule^2 + -0.000000320 * Airport Code^1*Schedule^1*Purpose of Flight^1 + 0.000000026 * Airport Code^1*Schedule^1*Air Carrier^1 + 0.000000176 * Airport Code^1*Schedule^1*Total Fatal Injuries^1 + -0.000004977 * Airport Code^1*Schedule^1*Total Serious Injuries^1 + 0.000001848 * Airport Code^1*Schedule^1*Total Minor Injuries^1 + -0.000000043 * Airport Code^1*Schedule^1*Total Uninjured^1 + -0.000005977 * Airport Code^1*Schedule^1*Weather Condition^1 + -0.000001791 * Airport Code^1*Schedule^1*Broad Phase of Flight^1 + -0.000000001 * Airport Code^1*Schedule^1*Report Publication Date^1 + -0.000000000 * Airport Code^1*Schedule^1*Unnamed: 30^1 + 0.000000005 * Airport Code^1*Purpose of Flight^2 + -0.000000001 * Airport Code^1*Purpose of Flight^1*Air Carrier^1 + -0.000000028 * Airport Code^1*Purpose of Flight^1*Total Fatal Injuries^1 + 0.000000016 * Airport Code^1*Purpose of Flight^1*Total Serious Injuries^1 + 0.000000052 * Airport Code^1*Purpose of Flight^1*Total Minor Injuries^1 + -0.000000003 * Airport Code^1*Purpose of Flight^1*Total Uninjured^1 + -0.000001061 * Airport Code^1*Purpose of Flight^1*Weather Condition^1 + -0.000000401 * Airport Code^1*Purpose of Flight^1*Broad Phase of Flight^1 + -0.000000000 * Airport Code^1*Purpose of Flight^1*Report Publication Date^1 + -0.000000000 * Airport Code^1*Purpose of Flight^1*Unnamed: 30^1 + 0.000000000 * Airport Code^1*Air Carrier^2 + 0.000000001 * Airport Code^1*Air Carrier^1*Total Fatal Injuries^1 + 0.000000003 * Airport Code^1*Air Carrier^1*Total Serious Injuries^1 + -0.000000000 * Airport Code^1*Air Carrier^1*Total Minor Injuries^1 + 0.000000000 * Airport Code^1*Air Carrier^1*Weather Condition^1 + 0.000000001 * Airport Code^1*Air Carrier^1*Broad Phase of Flight^1 + -0.000000000 * Airport

Code^1*Air Carrier^1*Report Publication Date^1 + -0.000000000 * Airport Code^1*Air Carrier^1*Unnamed: 30^1 + -0.000000048 * Airport Code^1*Total Fatal Injuries^2 + 0.000000140 * Airport Code^1*Total Fatal Injuries^1*Total Serious Injuries^1 + 0.000000138 * Airport Code^1*Total Fatal Injuries^1*Total Minor Injuries^1 + -0.000000005 * Airport Code^1*Total Fatal Injuries^1*Total Uninjured^1 + 0.000000067 * Airport Code^1*Total Fatal Injuries^1*Weather Condition^1 + -0.000000015 * Airport Code^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + 0.000000000 * Airport Code^1*Total Fatal Injuries^1*Unnamed: 30^1 + 0.000000353 * Airport Code^1*Total Serious Injuries^2 + -0.000000170 * Airport Code^1*Total Serious Injuries^1*Total Minor Injuries^1 + 0.000000019 * Airport Code^1*Total Serious Injuries^1*Total Uninjured^1 + -0.000000351 * Airport Code^1*Total Serious Injuries^1*Weather Condition^1 + 0.000000406 * Airport Code^1*Total Serious Injuries^1*Broad Phase of Flight^1 + 0.000000000 * Airport Code^1*Total Serious Injuries^1*Report Publication Date^1 + -0.000000000 * Airport Code^1*Total Serious Injuries^1*Unnamed: 30^1 + 0.000000003 * Airport Code^1*Total Minor Injuries^2 + -0.000000003 * Airport Code^1*Total Minor Injuries^1*Total Uninjured^1 + -0.000000053 * Airport Code^1*Total Minor Injuries^1*Weather Condition^1 + 0.000000186 * Airport Code^1*Total Minor Injuries^1*Broad Phase of Flight^1 + -0.000000000 * Airport Code^1*Total Minor Injuries^1*Report Publication Date^1 + 0.000000000 * Airport Code^1*Total Minor Injuries^1*Unnamed: 30^1 + 0.000000000 * Airport Code^1*Total Uninjured^2 + -0.000000025 * Airport Code^1*Total Uninjured^1*Weather Condition^1 + 0.000000004 * Airport Code^1*Total Uninjured^1*Broad Phase of Flight^1 + 0.000000000 * Airport Code^1*Total Uninjured^1*Report Publication Date^1 + 0.000000000 * Airport Code^1*Total Uninjured^1*Unnamed: 30^1 + -0.000002064 * Airport Code^1*Weather Condition^2 + 0.000001260 * Airport Code^1*Weather Condition^1*Broad Phase of Flight^1 + 0.000000002 * Airport Code^1*Weather Condition^1*Report Publication Date^1 + -0.000000000 * Airport Code^1*Weather Condition^1*Unnamed: 30^1 + -0.000000165 * Airport Code^1*Broad Phase of Flight^2 + -0.000000001 * Airport Code^1*Broad Phase of Flight^1*Report Publication Date^1 + 0.000000000 * Airport Code^1*Broad Phase of Flight^1*Unnamed: 30^1 + 0.000000000 * Airport Code^1*Report Publication Date^2 + 0.000000000 * Airport Code^1*Report Publication Date^1*Unnamed: 30^1 + 0.000000000 * Airport Code^1*Unnamed: 30^2 + 0.000000000 * Airport Name^3 + 0.000000000 * Airport Name^2*Injury Severity^1 + 0.000000000 * Airport Name^2*Aircraft Category^1 + 0.000000000 * Airport Name^2*Registration Number^1 + -0.000000000 * Airport Name^2*Make^1 + 0.000000000 * Airport Name^2*Model^1 + 0.000000001 * Airport Name^2*Amateur Built^1 + 0.000000001 * Airport Name^2*Number of Engines^1 + -0.000000000 * Airport Name^2*Engine Type^1 + -0.000000000 * Airport Name^2*FAR Description^1 + -0.000000000 * Airport Name^2*Schedule^1 + 0.000000000 * Airport Name^2*Purpose of Flight^1 + 0.000000000 * Airport Name^2*Air Carrier^1 + 0.000000000 * Airport Name^2*Total Fatal Injuries^1 + 0.000000000 * Airport Name^2*Total Serious Injuries^1 + 0.000000000 * Airport Name^2*Total Minor Injuries^1 + -0.000000000 * Airport Name^2*Total Uninjured^1 + -0.000000000 * Airport Name^2*Weather Condition^1 + 0.000000000 * Airport Name^2*Broad Phase of Flight^1 + 0.000000000 * Airport Name^2*Report Publication Date^1 + -0.000000000 * Airport Name^2*Unnamed: 30^1 + 0.000000031 * Airport Name^1*Injury Severity^2 + -0.000000182 * Airport Name^1*Injury Severity^1*Aircraft Category^1 + -0.000000000 * Airport Name^1*Injury Severity^1*Registration Number^1 + 0.000000000 * Airport Name^1*Injury Severity^1*Make^1 + 0.000000000 * Airport Name^1*Injury Severity^1*Model^1 + -0.000000035 * Airport Name^1*Injury Severity^1*Amateur Built^1 + -0.000000001 * Airport Name^1*Injury Severity^1*Number of Engines^1

+ 0.000000009 * Airport Name^1*Injury Severity^1*Engine Type^1 + 0.000000008 * Airport Name^1*Injury Severity^1*FAR Description^1 + -0.000000010 * Airport Name^1*Injury Severity^1*Schedule^1 + -0.000000007 * Airport Name^1*Injury Severity^1*Purpose of Flight^1 + 0.000000000 * Airport Name^1*Injury Severity^1*Air Carrier^1 + -0.000000041 * Airport Name^1*Injury Severity^1*Total Fatal Injuries^1 + -0.000000007 * Airport Name^1*Injury Severity^1*Total Serious Injuries^1 + -0.000000014 * Airport Name^1*Injury Severity^1*Total Minor Injuries^1 + 0.000000000 * Airport Name^1*Injury Severity^1*Total Uninjured^1 + -0.000000004 * Airport Name^1*Injury Severity^1*Weather Condition^1 + 0.000000009 * Airport Name^1*Injury Severity^1*Broad Phase of Flight^1 + -0.000000000 * Airport Name^1*Injury Severity^1*Report Publication Date^1 + -0.000000000 * Airport Name^1*Injury Severity^1*Unnamed: 30^1 + -0.000006375 * Airport Name^1*Aircraft Category^2 + -0.000000000 * Airport Name^1*Aircraft Category^1*Registration Number^1 + -0.000000001 * Airport Name^1*Aircraft Category^1*Make^1 + -0.000000000 * Airport Name^1*Aircraft Category^1*Model^1 + -0.000007470 * Airport Name^1*Aircraft Category^1*Amateur Built^1 + 0.000012027 * Airport Name^1*Aircraft Category^1*Number of Engines^1 + 0.000002455 * Airport Name^1*Aircraft Category^1*Engine Type^1 + -0.000003172 * Airport Name^1*Aircraft Category^1*FAR Description^1 + -0.000004227 * Airport Name^1*Aircraft Category^1*Schedule^1 + 0.000001104 * Airport Name^1*Aircraft Category^1*Purpose of Flight^1 + -0.000000028 * Airport Name^1*Aircraft Category^1*Air Carrier^1 + 0.000000648 * Airport Name^1*Aircraft Category^1*Total Fatal Injuries^1 + 0.000001026 * Airport Name^1*Aircraft Category^1*Total Serious Injuries^1 + -0.000000390 * Airport Name^1*Aircraft Category^1*Total Minor Injuries^1 + -0.000000046 * Airport Name^1*Aircraft Category^1*Total Uninjured^1 + 0.000002271 * Airport Name^1*Aircraft Category^1*Weather Condition^1 + 0.000000099 * Airport Name^1*Aircraft Category^1*Broad Phase of Flight^1 + -0.000000007 * Airport Name^1*Aircraft Category^1*Report Publication Date^1 + 0.000000000 * Airport Name^1*Aircraft Category^1*Unnamed: 30^1 + -0.000000000 * Airport Name^1*Registration Number^2 + 0.000000000 * Airport Name^1*Registration Number^1*Make^1 + -0.000000000 * Airport Name^1*Registration Number^1*Model^1 + -0.000000000 * Airport Name^1*Registration Number^1*Amateur Built^1 + 0.000000000 * Airport Name^1*Registration Number^1*Number of Engines^1 + -0.000000000 * Airport Name^1*Registration Number^1*Engine Type^1 + -0.000000000 * Airport Name^1*Registration Number^1*FAR Description^1 + 0.000000000 * Airport Name^1*Registration Number^1*Schedule^1 + 0.000000000 * Airport Name^1*Registration Number^1*Purpose of Flight^1 + 0.000000000 * Airport Name^1*Registration Number^1*Air Carrier^1 + -0.000000000 * Airport Name^1*Registration Number^1*Total Fatal Injuries^1 + 0.000000000 * Airport Name^1*Registration Number^1*Total Minor Injuries^1 + -0.000000000 * Airport Name^1*Registration Number^1*Total Uninjured^1 + -0.000000000 * Airport Name^1*Registration Number^1*Weather Condition^1 + 0.000000000 * Airport Name^1*Registration Number^1*Broad Phase of Flight^1 + 0.000000000 * Airport Name^1*Registration Number^1*Report Publication Date^1 + 0.000000000 * Airport Name^1*Registration Number^1*Unnamed: 30^1 + -0.000000000 * Airport Name^1*Make^2 + -0.000000000 * Airport Name^1*Make^1*Model^1 + 0.000000003 * Airport Name^1*Make^1*Amateur Built^1 + 0.000000001 * Airport Name^1*Make^1*Number of Engines^1 + 0.000000000 * Airport Name^1*Make^1*Engine Type^1 + 0.000000000 * Airport Name^1*Make^1*FAR Description^1 + 0.000000001 * Airport Name^1*Make^1*Schedule^1 + 0.000000000 * Airport Name^1*Make^1*Purpose of Flight^1 + 0.000000000 * Airport Name^1*Make^1*Air Carrier^1 + 0.000000000 * Airport Name^1*Make^1*Total

Fatal Injuries^1 + 0.000000000 * Airport Name^1*Make^1*Total Serious Injuries^1 + -0.000000000 *
Airport Name^1*Make^1*Total Minor Injuries^1 + 0.000000000 * Airport Name^1*Make^1*Total
Uninjured^1 + -0.000000001 * Airport Name^1*Make^1*Weather Condition^1 + -0.000000000 *
Airport Name^1*Make^1*Broad Phase of Flight^1 + 0.000000000 * Airport Name^1*Make^1*Report
Publication Date^1 + -0.000000000 * Airport Name^1*Make^1*Unnamed: 30^1 + -0.000000000 *
Airport Name^1*Model^2 + 0.000000001 * Airport Name^1*Model^1*Amateur Built^1 + 0.000000001
* Airport Name^1*Model^1*Number of Engines^1 + 0.000000000 * Airport Name^1*Model^1*Engine
Type^1 + 0.000000000 * Airport Name^1*Model^1*FAR Description^1 + -0.000000000 * Airport
Name^1*Model^1*Schedule^1 + 0.000000000 * Airport Name^1*Model^1*Purpose of Flight^1 +
0.000000000 * Airport Name^1*Model^1*Air Carrier^1 + 0.000000000 * Airport
Name^1*Model^1*Total Fatal Injuries^1 + -0.000000000 * Airport Name^1*Model^1*Total Serious
Injuries^1 + 0.000000000 * Airport Name^1*Model^1*Total Minor Injuries^1 + -0.000000000 * Airport
Name^1*Model^1*Total Uninjured^1 + 0.000000001 * Airport Name^1*Model^1*Weather
Condition^1 + 0.000000000 * Airport Name^1*Model^1*Broad Phase of Flight^1 + -0.000000000 *
Airport Name^1*Model^1*Report Publication Date^1 + -0.000000000 * Airport
Name^1*Model^1*Unnamed: 30^1 + 0.000062724 * Airport Name^1*Amateur Built^2 + -0.000003957
* Airport Name^1*Amateur Built^1*Number of Engines^1 + -0.000002977 * Airport Name^1*Amateur
Built^1*Engine Type^1 + 0.000000363 * Airport Name^1*Amateur Built^1*FAR Description^1 +
0.000004218 * Airport Name^1*Amateur Built^1*Schedule^1 + -0.000000878 * Airport
Name^1*Amateur Built^1*Purpose of Flight^1 + 0.000000294 * Airport Name^1*Amateur Built^1*Air
Carrier^1 + -0.000000181 * Airport Name^1*Amateur Built^1*Total Fatal Injuries^1 + 0.000000121 *
Airport Name^1*Amateur Built^1*Total Serious Injuries^1 + 0.000000159 * Airport Name^1*Amateur
Built^1*Total Minor Injuries^1 + 0.000000073 * Airport Name^1*Amateur Built^1*Total Uninjured^1 +
0.000008159 * Airport Name^1*Amateur Built^1*Weather Condition^1 + 0.000000254 * Airport
Name^1*Amateur Built^1*Broad Phase of Flight^1 + -0.000000000 * Airport Name^1*Amateur
Built^1*Report Publication Date^1 + 0.000000000 * Airport Name^1*Amateur Built^1*Unnamed: 30^1
+ -0.000000683 * Airport Name^1*Number of Engines^2 + -0.000001495 * Airport Name^1*Number of
Engines^1*Engine Type^1 + -0.000000637 * Airport Name^1*Number of Engines^1*FAR Description^1
+ 0.000006383 * Airport Name^1*Number of Engines^1*Schedule^1 + -0.000000167 * Airport
Name^1*Number of Engines^1*Purpose of Flight^1 + 0.000000002 * Airport Name^1*Number of
Engines^1*Air Carrier^1 + -0.000000052 * Airport Name^1*Number of Engines^1*Total Fatal Injuries^1
+ 0.000000837 * Airport Name^1*Number of Engines^1*Total Serious Injuries^1 + 0.000000970 *
Airport Name^1*Number of Engines^1*Total Minor Injuries^1 + 0.000000036 * Airport
Name^1*Number of Engines^1*Total Uninjured^1 + 0.000004767 * Airport Name^1*Number of
Engines^1*Weather Condition^1 + -0.000000418 * Airport Name^1*Number of Engines^1*Broad Phase
of Flight^1 + 0.000000002 * Airport Name^1*Number of Engines^1*Report Publication Date^1 +
0.000000000 * Airport Name^1*Number of Engines^1*Unnamed: 30^1 + 0.000001647 * Airport
Name^1*Engine Type^2 + -0.000000536 * Airport Name^1*Engine Type^1*FAR Description^1 +
0.000000789 * Airport Name^1*Engine Type^1*Schedule^1 + 0.000000168 * Airport Name^1*Engine
Type^1*Purpose of Flight^1 + -0.000000005 * Airport Name^1*Engine Type^1*Air Carrier^1 +
0.000000033 * Airport Name^1*Engine Type^1*Total Fatal Injuries^1 + 0.000000288 * Airport
Name^1*Engine Type^1*Total Serious Injuries^1 + 0.000000205 * Airport Name^1*Engine
Type^1*Total Minor Injuries^1 + 0.000000025 * Airport Name^1*Engine Type^1*Total Uninjured^1 +
0.000001603 * Airport Name^1*Engine Type^1*Weather Condition^1 + -0.000000233 * Airport

Name^1*Engine Type^1*Broad Phase of Flight^1 + -0.000000000 * Airport Name^1*Engine Type^1*Report Publication Date^1 + 0.000000000 * Airport Name^1*Engine Type^1*Unnamed: 30^1 + 0.000000541 * Airport Name^1*FAR Description^2 + 0.000001069 * Airport Name^1*FAR Description^1*Schedule^1 + -0.000000072 * Airport Name^1*FAR Description^1*Purpose of Flight^1 + 0.000000001 * Airport Name^1*FAR Description^1*Air Carrier^1 + -0.000000002 * Airport Name^1*FAR Description^1*Total Fatal Injuries^1 + -0.000000062 * Airport Name^1*FAR Description^1*Total Serious Injuries^1 + 0.000000048 * Airport Name^1*FAR Description^1*Total Minor Injuries^1 + 0.000000007 * Airport Name^1*FAR Description^1*Total Uninjured^1 + -0.000000712 * Airport Name^1*FAR Description^1*Weather Condition^1 + -0.000000035 * Airport Name^1*FAR Description^1*Broad Phase of Flight^1 + 0.000000001 * Airport Name^1*FAR Description^1*Report Publication Date^1 + -0.000000000 * Airport Name^1*FAR Description^1*Unnamed: 30^1 + -0.000007318 * Airport Name^1*Schedule^2 + -0.000000231 * Airport Name^1*Schedule^1*Purpose of Flight^1 + 0.000000011 * Airport Name^1*Schedule^1*Air Carrier^1 + 0.000000011 * Airport Name^1*Schedule^1*Total Fatal Injuries^1 + 0.000002345 * Airport Name^1*Schedule^1*Total Serious Injuries^1 + -0.000001035 * Airport Name^1*Schedule^1*Total Minor Injuries^1 + 0.000000035 * Airport Name^1*Schedule^1*Total Uninjured^1 + 0.000003660 * Airport Name^1*Schedule^1*Weather Condition^1 + 0.000000200 * Airport Name^1*Schedule^1*Broad Phase of Flight^1 + 0.000000001 * Airport Name^1*Schedule^1*Report Publication Date^1 + 0.000000000 * Airport Name^1*Schedule^1*Unnamed: 30^1 + 0.000000034 * Airport Name^1*Schedule^1*Purpose of Flight^2 + -0.000000000 * Airport Name^1*Purpose of Flight^1*Air Carrier^1 + 0.000000023 * Airport Name^1*Purpose of Flight^1*Total Fatal Injuries^1 + 0.000000097 * Airport Name^1*Purpose of Flight^1*Total Serious Injuries^1 + -0.000000069 * Airport Name^1*Purpose of Flight^1*Total Minor Injuries^1 + 0.000000003 * Airport Name^1*Purpose of Flight^1*Total Uninjured^1 + 0.000000210 * Airport Name^1*Purpose of Flight^1*Weather Condition^1 + 0.000000084 * Airport Name^1*Purpose of Flight^1*Broad Phase of Flight^1 + -0.000000000 * Airport Name^1*Purpose of Flight^1*Report Publication Date^1 + 0.000000000 * Airport Name^1*Purpose of Flight^1*Unnamed: 30^1 + -0.000000000 * Airport Name^1*Air Carrier^2 + -0.000000001 * Airport Name^1*Air Carrier^1*Total Fatal Injuries^1 + -0.000000005 * Airport Name^1*Air Carrier^1*Total Serious Injuries^1 + 0.000000000 * Airport Name^1*Air Carrier^1*Total Minor Injuries^1 + -0.000000000 * Airport Name^1*Air Carrier^1*Total Uninjured^1 + -0.000000017 * Airport Name^1*Air Carrier^1*Weather Condition^1 + 0.000000000 * Airport Name^1*Air Carrier^1*Broad Phase of Flight^1 + 0.000000000 * Airport Name^1*Air Carrier^1*Report Publication Date^1 + -0.000000000 * Airport Name^1*Air Carrier^1*Unnamed: 30^1 + 0.000000019 * Airport Name^1*Total Fatal Injuries^2 + -0.000000015 * Airport Name^1*Total Fatal Injuries^1*Total Serious Injuries^1 + -0.000000045 * Airport Name^1*Total Fatal Injuries^1*Total Minor Injuries^1 + -0.000000000 * Airport Name^1*Total Fatal Injuries^1*Total Uninjured^1 + 0.000000068 * Airport Name^1*Total Fatal Injuries^1*Weather Condition^1 + 0.000000015 * Airport Name^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + -0.000000000 * Airport Name^1*Total Fatal Injuries^1*Report Publication Date^1 + -0.000000000 * Airport Name^1*Total Fatal Injuries^1*Unnamed: 30^1 + 0.000000001 * Airport Name^1*Total Serious Injuries^2 + 0.000000022 * Airport Name^1*Total Serious Injuries^1*Total Minor Injuries^1 + 0.000000002 * Airport Name^1*Total Serious Injuries^1*Total Uninjured^1 + 0.000000877 * Airport Name^1*Total Serious Injuries^1*Weather Condition^1 + -0.000000274 * Airport Name^1*Total Serious Injuries^1*Broad Phase of Flight^1 + -0.000000000 * Airport Name^1*Total Serious Injuries^1*Report Publication Date^1 + -0.000000000 * Airport Name^1*Total Serious Injuries^1*Unnamed: 30^1 + -

0.00000004 * Airport Name^1*Total Minor Injuries^2 + 0.00000007 * Airport Name^1*Total Minor Injuries^1*Total Uninjured^1 + -0.000000032 * Airport Name^1*Total Minor Injuries^1*Weather Condition^1 + -0.000000038 * Airport Name^1*Total Minor Injuries^1*Broad Phase of Flight^1 + 0.000000000 * Airport Name^1*Total Minor Injuries^1*Report Publication Date^1 + -0.000000000 * Airport Name^1*Total Minor Injuries^1*Unnamed: 30^1 + -0.000000000 * Airport Name^1*Total Uninjured^2 + 0.000000034 * Airport Name^1*Total Uninjured^1*Weather Condition^1 + -0.000000004 * Airport Name^1*Total Uninjured^1*Broad Phase of Flight^1 + -0.000000000 * Airport Name^1*Total Uninjured^1*Report Publication Date^1 + -0.000000000 * Airport Name^1*Total Uninjured^1*Unnamed: 30^1 + -0.000004720 * Airport Name^1*Weather Condition^2 + -0.000000731 * Airport Name^1*Weather Condition^1*Broad Phase of Flight^1 + 0.000000000 * Airport Name^1*Weather Condition^1*Report Publication Date^1 + 0.000000000 * Airport Name^1*Weather Condition^1*Unnamed: 30^1 + -0.000000240 * Airport Name^1*Broad Phase of Flight^2 + 0.000000000 * Airport Name^1*Broad Phase of Flight^1*Report Publication Date^1 + 0.000000000 * Airport Name^1*Broad Phase of Flight^1*Unnamed: 30^1 + 0.000000000 * Airport Name^1*Report Publication Date^2 + 0.000000000 * Airport Name^1*Report Publication Date^1*Unnamed: 30^1 + -0.000000000 * Airport Name^1*Unnamed: 30^2 + -0.000000045 * Injury Severity^3 + -0.000011020 * Injury Severity^2*Aircraft Category^1 + 0.000000000 * Injury Severity^2*Registration Number^1 + -0.000000000 * Injury Severity^2*Make^1 + 0.000000000 * Injury Severity^2*Model^1 + -0.000001178 * Injury Severity^2*Amateur Built^1 + -0.000006901 * Injury Severity^2*Number of Engines^1 + -0.000004539 * Injury Severity^2*Engine Type^1 + -0.000000704 * Injury Severity^2*FAR Description^1 + -0.000014330 * Injury Severity^2*Schedule^1 + -0.000029703 * Injury Severity^2*Purpose of Flight^1 + 0.000000330 * Injury Severity^2*Air Carrier^1 + 0.000050875 * Injury Severity^2*Total Fatal Injuries^1 + -0.000018185 * Injury Severity^2*Total Serious Injuries^1 + -0.000005643 * Injury Severity^2*Total Minor Injuries^1 + -0.000004841 * Injury Severity^2*Total Uninjured^1 + -0.000012472 * Injury Severity^2*Weather Condition^1 + -0.000003349 * Injury Severity^2*Broad Phase of Flight^1 + -0.000000757 * Injury Severity^2*Report Publication Date^1 + -0.000000000 * Injury Severity^2*Unnamed: 30^1 + -0.000203015 * Injury Severity^1*Aircraft Category^2 + -0.000000002 * Injury Severity^1*Aircraft Category^1*Registration Number^1 + 0.000000002 * Injury Severity^1*Aircraft Category^1*Make^1 + -0.000000014 * Injury Severity^1*Aircraft Category^1*Model^1 + -0.000289950 * Injury Severity^1*Aircraft Category^1*Amateur Built^1 + 0.000120817 * Injury Severity^1*Aircraft Category^1*Number of Engines^1 + 0.000087290 * Injury Severity^1*Aircraft Category^1*Engine Type^1 + 0.000026383 * Injury Severity^1*Aircraft Category^1*FAR Description^1 + -0.000238671 * Injury Severity^1*Aircraft Category^1*Schedule^1 + 0.000012917 * Injury Severity^1*Aircraft Category^1*Purpose of Flight^1 + -0.000001891 * Injury Severity^1*Aircraft Category^1*Air Carrier^1 + -0.000006948 * Injury Severity^1*Aircraft Category^1*Total Fatal Injuries^1 + 0.000202025 * Injury Severity^1*Aircraft Category^1*Total Serious Injuries^1 + 0.000000862 * Injury Severity^1*Aircraft Category^1*Total Minor Injuries^1 + -0.000003767 * Injury Severity^1*Aircraft Category^1*Total Uninjured^1 + 0.000317183 * Injury Severity^1*Aircraft Category^1*Weather Condition^1 + 0.000049738 * Injury Severity^1*Aircraft Category^1*Broad Phase of Flight^1 + 0.000000335 * Injury Severity^1*Aircraft Category^1*Report Publication Date^1 + -0.000000000 * Injury Severity^1*Aircraft Category^1*Unnamed: 30^1 + -0.000000000 * Injury Severity^1*Registration Number^2 + -0.000000000 * Injury Severity^1*Registration Number^1*Make^1 + -0.000000000 * Injury Severity^1*Registration Number^1*Model^1 + -0.000000011 * Injury Severity^1*Registration Number^1*Amateur Built^1 +

0.000000006 * Injury Severity^1*Registration Number^1*Number of Engines^1 + 0.000000001 * Injury Severity^1*Registration Number^1*Engine Type^1 + 0.000000001 * Injury Severity^1*Registration Number^1*FAR Description^1 + -0.000000007 * Injury Severity^1*Registration Number^1*Schedule^1 + -0.000000001 * Injury Severity^1*Registration Number^1*Purpose of Flight^1 + 0.000000000 * Injury Severity^1*Registration Number^1*Air Carrier^1 + 0.000000002 * Injury Severity^1*Registration Number^1*Total Fatal Injuries^1 + -0.000000003 * Injury Severity^1*Registration Number^1*Total Serious Injuries^1 + 0.000000002 * Injury Severity^1*Registration Number^1*Total Minor Injuries^1 + -0.000000000 * Injury Severity^1*Registration Number^1*Total Uninjured^1 + 0.000000005 * Injury Severity^1*Registration Number^1*Weather Condition^1 + 0.000000001 * Injury Severity^1*Registration Number^1*Broad Phase of Flight^1 + -0.000000000 * Injury Severity^1*Registration Number^1*Report Publication Date^1 + 0.000000000 * Injury Severity^1*Registration Number^1*Unnamed: 30^1 + -0.000000000 * Injury Severity^1*Make^2 + 0.000000000 * Injury Severity^1*Make^1*Model^1 + 0.000000113 * Injury Severity^1*Make^1*Amateur Built^1 + -0.000000169 * Injury Severity^1*Make^1*Number of Engines^1 + -0.000000122 * Injury Severity^1*Make^1*Engine Type^1 + 0.000000014 * Injury Severity^1*Make^1*FAR Description^1 + 0.000000082 * Injury Severity^1*Make^1*Schedule^1 + 0.000000006 * Injury Severity^1*Make^1*Purpose of Flight^1 + -0.000000000 * Injury Severity^1*Make^1*Air Carrier^1 + 0.000000047 * Injury Severity^1*Make^1*Total Fatal Injuries^1 + -0.000000127 * Injury Severity^1*Make^1*Total Serious Injuries^1 + 0.000000042 * Injury Severity^1*Make^1*Total Minor Injuries^1 + 0.000000009 * Injury Severity^1*Make^1*Total Uninjured^1 + -0.000000323 * Injury Severity^1*Make^1*Weather Condition^1 + 0.000000003 * Injury Severity^1*Make^1*Broad Phase of Flight^1 + 0.000000000 * Injury Severity^1*Make^1*Report Publication Date^1 + -0.000000000 * Injury Severity^1*Make^1*Unnamed: 30^1 + 0.000000000 * Injury Severity^1*Model^2 + 0.000000012 * Injury Severity^1*Model^1*Model^1*Amateur Built^1 + 0.000000012 * Injury Severity^1*Model^1*Model^1*Number of Engines^1 + 0.000000014 * Injury Severity^1*Model^1*Engine Type^1 + 0.000000000 * Injury Severity^1*Model^1*FAR Description^1 + -0.000000005 * Injury Severity^1*Model^1*Schedule^1 + -0.000000002 * Injury Severity^1*Model^1*Purpose of Flight^1 + -0.000000000 * Injury Severity^1*Model^1*Air Carrier^1 + 0.000000016 * Injury Severity^1*Model^1*Total Fatal Injuries^1 + 0.000000006 * Injury Severity^1*Model^1*Total Serious Injuries^1 + -0.000000002 * Injury Severity^1*Model^1*Total Minor Injuries^1 + -0.000000003 * Injury Severity^1*Model^1*Total Uninjured^1 + 0.000000070 * Injury Severity^1*Model^1*Weather Condition^1 + -0.000000003 * Injury Severity^1*Model^1*Broad Phase of Flight^1 + 0.000000000 * Injury Severity^1*Model^1*Report Publication Date^1 + -0.000000000 * Injury Severity^1*Model^1*Unnamed: 30^1 + 0.000739139 * Injury Severity^1*Amateur Built^2 + 0.000077552 * Injury Severity^1*Amateur Built^1*Number of Engines^1 + 0.000063796 * Injury Severity^1*Amateur Built^1*Engine Type^1 + 0.000066066 * Injury Severity^1*Amateur Built^1*FAR Description^1 + 0.000158577 * Injury Severity^1*Amateur Built^1*Schedule^1 + -0.000058558 * Injury Severity^1*Amateur Built^1*Purpose of Flight^1 + -0.000012294 * Injury Severity^1*Amateur Built^1*Air Carrier^1 + -0.000499017 * Injury Severity^1*Amateur Built^1*Total Fatal Injuries^1 + 0.000087957 * Injury Severity^1*Amateur Built^1*Total Serious Injuries^1 + 0.000349586 * Injury Severity^1*Amateur Built^1*Total Minor Injuries^1 + -0.000015149 * Injury Severity^1*Amateur Built^1*Total Uninjured^1 + 0.001343291 * Injury Severity^1*Amateur Built^1*Weather Condition^1 + 0.000009920 * Injury Severity^1*Amateur Built^1*Broad Phase of Flight^1 + -0.000000122 * Injury Severity^1*Amateur Built^1*Report Publication Date^1 + 0.000000000 * Injury Severity^1*Amateur

Built^1*Unnamed: 30^1 + -0.000600930 * Injury Severity^1*Number of Engines^2 + -0.000051011 * Injury Severity^1*Number of Engines^1*Engine Type^1 + -0.000008558 * Injury Severity^1*Number of Engines^1*FAR Description^1 + -0.000690386 * Injury Severity^1*Number of Engines^1*Schedule^1 + 0.000023154 * Injury Severity^1*Number of Engines^1*Purpose of Flight^1 + 0.000000931 * Injury Severity^1*Number of Engines^1*Air Carrier^1 + 0.000214736 * Injury Severity^1*Number of Engines^1*Total Fatal Injuries^1 + 0.000109647 * Injury Severity^1*Number of Engines^1*Total Serious Injuries^1 + -0.000026826 * Injury Severity^1*Number of Engines^1*Total Minor Injuries^1 + 0.000005967 * Injury Severity^1*Number of Engines^1*Total Uninjured^1 + -0.000155759 * Injury Severity^1*Number of Engines^1*Weather Condition^1 + 0.000026753 * Injury Severity^1*Number of Engines^1*Broad Phase of Flight^1 + -0.000000120 * Injury Severity^1*Number of Engines^1*Report Publication Date^1 + 0.000000000 * Injury Severity^1*Number of Engines^1*Unnamed: 30^1 + -0.000007425 * Injury Severity^1*Engine Type^2 + -0.000028894 * Injury Severity^1*Engine Type^1*FAR Description^1 + -0.000029315 * Injury Severity^1*Engine Type^1*Schedule^1 + -0.000011589 * Injury Severity^1*Engine Type^1*Purpose of Flight^1 + -0.000000045 * Injury Severity^1*Engine Type^1*Air Carrier^1 + 0.000144210 * Injury Severity^1*Engine Type^1*Total Fatal Injuries^1 + -0.000059329 * Injury Severity^1*Engine Type^1*Total Serious Injuries^1 + 0.000021169 * Injury Severity^1*Engine Type^1*Total Minor Injuries^1 + 0.000002508 * Injury Severity^1*Engine Type^1*Total Uninjured^1 + -0.000140145 * Injury Severity^1*Engine Type^1*Weather Condition^1 + 0.000047911 * Injury Severity^1*Engine Type^1*Broad Phase of Flight^1 + 0.000000331 * Injury Severity^1*Engine Type^1*Report Publication Date^1 + 0.000000000 * Injury Severity^1*Engine Type^1*Unnamed: 30^1 + -0.000004536 * Injury Severity^1*FAR Description^2 + -0.000037918 * Injury Severity^1*FAR Description^1*Schedule^1 + 0.000005252 * Injury Severity^1*FAR Description^1*Purpose of Flight^1 + 0.000000398 * Injury Severity^1*FAR Description^1*Air Carrier^1 + 0.000009301 * Injury Severity^1*FAR Description^1*Total Fatal Injuries^1 + -0.000015747 * Injury Severity^1*FAR Description^1*Total Serious Injuries^1 + 0.000020971 * Injury Severity^1*FAR Description^1*Total Minor Injuries^1 + 0.000000792 * Injury Severity^1*FAR Description^1*Total Uninjured^1 + -0.000038043 * Injury Severity^1*FAR Description^1*Weather Condition^1 + -0.000010906 * Injury Severity^1*FAR Description^1*Broad Phase of Flight^1 + -0.000000101 * Injury Severity^1*FAR Description^1*Report Publication Date^1 + -0.000000000 * Injury Severity^1*FAR Description^1*Unnamed: 30^1 + -0.000120515 * Injury Severity^1*Schedule^2 + 0.000065551 * Injury Severity^1*Schedule^1*Purpose of Flight^1 + -0.000003695 * Injury Severity^1*Schedule^1*Air Carrier^1 + 0.000333330 * Injury Severity^1*Schedule^1*Total Fatal Injuries^1 + -0.000042553 * Injury Severity^1*Schedule^1*Total Serious Injuries^1 + 0.000048229 * Injury Severity^1*Schedule^1*Total Minor Injuries^1 + -0.000005846 * Injury Severity^1*Schedule^1*Total Uninjured^1 + 0.000140799 * Injury Severity^1*Schedule^1*Weather Condition^1 + -0.000014824 * Injury Severity^1*Schedule^1*Broad Phase of Flight^1 + 0.000000312 * Injury Severity^1*Schedule^1*Report Publication Date^1 + 0.000000000 * Injury Severity^1*Schedule^1*Unnamed: 30^1 + -0.000002245 * Injury Severity^1*Purpose of Flight^2 + -0.000000097 * Injury Severity^1*Purpose of Flight^1*Air Carrier^1 + -0.000025241 * Injury Severity^1*Purpose of Flight^1*Total Fatal Injuries^1 + 0.000009525 * Injury Severity^1*Purpose of Flight^1*Total Serious Injuries^1 + -0.000007838 * Injury Severity^1*Purpose of Flight^1*Total Minor Injuries^1 + 0.000000182 * Injury Severity^1*Purpose of Flight^1*Total Uninjured^1 + -0.000029316 * Injury Severity^1*Purpose of Flight^1*Weather Condition^1 + 0.000011741 * Injury Severity^1*Purpose of Flight^1*Broad Phase of Flight^1 + -0.000000005 * Injury Severity^1*Purpose of Flight^1*Report Publication Date^1 + 0.000000000 * Injury

Severity^1*Purpose of Flight^1*Unnamed: 30^1 + -0.000000002 * Injury Severity^1*Air Carrier^2 + 0.000000269 * Injury Severity^1*Air Carrier^1*Total Fatal Injuries^1 + 0.000000129 * Injury Severity^1*Air Carrier^1*Total Serious Injuries^1 + -0.000000043 * Injury Severity^1*Air Carrier^1*Total Minor Injuries^1 + 0.000000002 * Injury Severity^1*Air Carrier^1*Total Uninjured^1 + 0.000001262 * Injury Severity^1*Air Carrier^1*Weather Condition^1 + -0.000000297 * Injury Severity^1*Air Carrier^1*Broad Phase of Flight^1 + -0.000000001 * Injury Severity^1*Air Carrier^1*Report Publication Date^1 + 0.000000000 * Injury Severity^1*Air Carrier^1*Unnamed: 30^1 + -0.000055476 * Injury Severity^1*Total Fatal Injuries^2 + -0.000011709 * Injury Severity^1*Total Fatal Injuries^1*Total Serious Injuries^1 + -0.000073475 * Injury Severity^1*Total Fatal Injuries^1*Total Minor Injuries^1 + 0.000017038 * Injury Severity^1*Total Fatal Injuries^1*Total Uninjured^1 + 0.000159332 * Injury Severity^1*Total Fatal Injuries^1*Weather Condition^1 + 0.000030193 * Injury Severity^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + 0.000000543 * Injury Severity^1*Total Fatal Injuries^1*Report Publication Date^1 + 0.000000000 * Injury Severity^1*Total Fatal Injuries^1*Unnamed: 30^1 + 0.000060219 * Injury Severity^1*Total Serious Injuries^2 + 0.000000304 * Injury Severity^1*Total Serious Injuries^1*Total Minor Injuries^1 + -0.000001162 * Injury Severity^1*Total Serious Injuries^1*Total Uninjured^1 + 0.000040033 * Injury Severity^1*Total Serious Injuries^1*Weather Condition^1 + 0.000011726 * Injury Severity^1*Total Serious Injuries^1*Broad Phase of Flight^1 + -0.000000087 * Injury Severity^1*Total Serious Injuries^1*Report Publication Date^1 + -0.000000000 * Injury Severity^1*Total Serious Injuries^1*Unnamed: 30^1 + 0.000008558 * Injury Severity^1*Total Minor Injuries^2 + -0.000000324 * Injury Severity^1*Total Minor Injuries^1*Total Uninjured^1 + -0.000163283 * Injury Severity^1*Total Minor Injuries^1*Weather Condition^1 + 0.000000249 * Injury Severity^1*Total Minor Injuries^1*Broad Phase of Flight^1 + -0.000000038 * Injury Severity^1*Total Minor Injuries^1*Report Publication Date^1 + 0.000000000 * Injury Severity^1*Total Minor Injuries^1*Unnamed: 30^1 + 0.000000095 * Injury Severity^1*Total Uninjured^2 + 0.000008275 * Injury Severity^1*Total Uninjured^1*Weather Condition^1 + 0.000000321 * Injury Severity^1*Total Uninjured^1*Broad Phase of Flight^1 + 0.000000000 * Injury Severity^1*Total Uninjured^1*Report Publication Date^1 + 0.000000000 * Injury Severity^1*Total Uninjured^1*Unnamed: 30^1 + -0.000026846 * Injury Severity^1*Weather Condition^2 + -0.000014321 * Injury Severity^1*Weather Condition^1*Broad Phase of Flight^1 + 0.000000312 * Injury Severity^1*Weather Condition^1*Report Publication Date^1 + -0.000000000 * Injury Severity^1*Weather Condition^1*Unnamed: 30^1 + 0.000001827 * Injury Severity^1*Broad Phase of Flight^2 + 0.000000010 * Injury Severity^1*Broad Phase of Flight^1*Report Publication Date^1 + 0.000000000 * Injury Severity^1*Broad Phase of Flight^1*Unnamed: 30^1 + 0.000000000 * Injury Severity^1*Report Publication Date^2 + -0.000000000 * Injury Severity^1*Report Publication Date^1*Unnamed: 30^1 + -0.000000000 * Injury Severity^1*Unnamed: 30^2 + -0.002941801 * Aircraft Category^3 + 0.000000265 * Aircraft Category^2*Registration Number^1 + 0.000009809 * Aircraft Category^2*Make^1 + -0.000005060 * Aircraft Category^2*Model^1 + -0.000410336 * Aircraft Category^2*Amateur Built^1 + -0.000077169 * Aircraft Category^2*Number of Engines^1 + -0.000449187 * Aircraft Category^2*Engine Type^1 + -0.005083466 * Aircraft Category^2*FAR Description^1 + 0.000529032 * Aircraft Category^2*Schedule^1 + -0.001224805 * Aircraft Category^2*Purpose of Flight^1 + 0.001784283 * Aircraft Category^2*Air Carrier^1 + 0.000039410 * Aircraft Category^2*Total Fatal Injuries^1 + 0.002652140 * Aircraft Category^2*Total Serious Injuries^1 + -0.001092333 * Aircraft Category^2*Total Minor Injuries^1 + 0.000259593 * Aircraft Category^2*Total Uninjured^1 + -0.000507000 * Aircraft Category^2*Weather Condition^1 + -0.002250218 * Aircraft

Category^2*Broad Phase of Flight^1 + 0.000027569 * Aircraft Category^2*Report Publication Date^1 + 0.000000000 * Aircraft Category^2*Unnamed: 30^1 + 0.000000000 * Aircraft Category^1*Registration Number^2 + -0.000000000 * Aircraft Category^1*Registration Number^1*Make^1 + -0.000000000 * Aircraft Category^1*Registration Number^1*Model^1 + -0.000000561 * Aircraft Category^1*Registration Number^1*Amateur Built^1 + -0.000000042 * Aircraft Category^1*Registration Number^1*Number of Engines^1 + -0.000000160 * Aircraft Category^1*Registration Number^1*Engine Type^1 + -0.000000138 * Aircraft Category^1*Registration Number^1*FAR Description^1 + -0.000000354 * Aircraft Category^1*Registration Number^1*Schedule^1 + -0.000000044 * Aircraft Category^1*Registration Number^1*Purpose of Flight^1 + 0.000000001 * Aircraft Category^1*Registration Number^1*Air Carrier^1 + -0.000000059 * Aircraft Category^1*Registration Number^1*Total Fatal Injuries^1 + 0.000000029 * Aircraft Category^1*Registration Number^1*Total Serious Injuries^1 + 0.000000021 * Aircraft Category^1*Registration Number^1*Total Minor Injuries^1 + -0.000000002 * Aircraft Category^1*Registration Number^1*Total Uninjured^1 + -0.000000964 * Aircraft Category^1*Registration Number^1*Weather Condition^1 + 0.000000074 * Aircraft Category^1*Registration Number^1*Broad Phase of Flight^1 + -0.000000000 * Aircraft Category^1*Registration Number^1*Report Publication Date^1 + -0.000000000 * Aircraft Category^1*Registration Number^1*Unnamed: 30^1 + -0.000000006 * Aircraft Category^1*Make^2 + -0.000000001 * Aircraft Category^1*Make^1*Model^1 + -0.000005604 * Aircraft Category^1*Make^1*Amateur Built^1 + -0.000005319 * Aircraft Category^1*Make^1*Number of Engines^1 + 0.000004165 * Aircraft Category^1*Make^1*Engine Type^1 + -0.000001552 * Aircraft Category^1*Make^1*FAR Description^1 + -0.000002901 * Aircraft Category^1*Make^1*Schedule^1 + 0.000000691 * Aircraft Category^1*Make^1*Purpose of Flight^1 + -0.000000019 * Aircraft Category^1*Make^1*Air Carrier^1 + 0.000000491 * Aircraft Category^1*Make^1*Total Fatal Injuries^1 + 0.000001570 * Aircraft Category^1*Make^1*Total Serious Injuries^1 + 0.000002372 * Aircraft Category^1*Make^1*Total Minor Injuries^1 + 0.000000001 * Aircraft Category^1*Make^1*Total Uninjured^1 + -0.000011312 * Aircraft Category^1*Make^1*Weather Condition^1 + -0.000000621 * Aircraft Category^1*Make^1*Broad Phase of Flight^1 + -0.000000037 * Aircraft Category^1*Make^1*Report Publication Date^1 + 0.000000000 * Aircraft Category^1*Make^1*Unnamed: 30^1 + -0.000000001 * Aircraft Category^1*Model^2 + 0.000015348 * Aircraft Category^1*Model^1*Amateur Built^1 + 0.000007358 * Aircraft Category^1*Model^1*Number of Engines^1 + -0.000002593 * Aircraft Category^1*Model^1*Engine Type^1 + -0.000000057 * Aircraft Category^1*Model^1*FAR Description^1 + 0.000000094 * Aircraft Category^1*Model^1*Schedule^1 + 0.000000280 * Aircraft Category^1*Model^1*Purpose of Flight^1 + -0.000000019 * Aircraft Category^1*Model^1*Air Carrier^1 + -0.000000111 * Aircraft Category^1*Model^1*Total Fatal Injuries^1 + 0.000000936 * Aircraft Category^1*Model^1*Total Serious Injuries^1 + -0.000000769 * Aircraft Category^1*Model^1*Total Minor Injuries^1 + 0.000000025 * Aircraft Category^1*Model^1*Total Uninjured^1 + -0.000004804 * Aircraft Category^1*Model^1*Weather Condition^1 + 0.000000661 * Aircraft Category^1*Model^1*Broad Phase of Flight^1 + 0.000000012 * Aircraft Category^1*Model^1*Report Publication Date^1 + 0.000000000 * Aircraft Category^1*Model^1*Unnamed: 30^1 + -0.000037298 * Aircraft Category^1*Amateur Built^2 + 0.000033980 * Aircraft Category^1*Amateur Built^1*Number of Engines^1 + -0.000571878 * Aircraft Category^1*Amateur Built^1*Engine Type^1 + 0.000271238 * Aircraft Category^1*Amateur Built^1*FAR Description^1 + -0.000129147 * Aircraft Category^1*Amateur Built^1*Schedule^1 +

0.002080878 * Aircraft Category^1*Amateur Built^1*Purpose of Flight^1 + 0.002159581 * Aircraft Category^1*Amateur Built^1*Air Carrier^1 + -0.005332883 * Aircraft Category^1*Amateur Built^1*Total Fatal Injuries^1 + -0.000599486 * Aircraft Category^1*Amateur Built^1*Total Serious Injuries^1 + -0.000602488 * Aircraft Category^1*Amateur Built^1*Total Minor Injuries^1 + -0.000781525 * Aircraft Category^1*Amateur Built^1*Total Uninjured^1 + -0.000150158 * Aircraft Category^1*Amateur Built^1*Weather Condition^1 + 0.000225211 * Aircraft Category^1*Amateur Built^1*Broad Phase of Flight^1 + -0.000039782 * Aircraft Category^1*Amateur Built^1*Report Publication Date^1 + 0.000000000 * Aircraft Category^1*Amateur Built^1*Unnamed: 30^1 + -0.000321325 * Aircraft Category^1*Number of Engines^2 + 0.000313208 * Aircraft Category^1*Number of Engines^1*Engine Type^1 + 0.001096921 * Aircraft Category^1*Number of Engines^1*FAR Description^1 + 0.000130344 * Aircraft Category^1*Number of Engines^1*Schedule^1 + -0.002993254 * Aircraft Category^1*Number of Engines^1*Purpose of Flight^1 + 0.000078229 * Aircraft Category^1*Number of Engines^1*Air Carrier^1 + -0.000656921 * Aircraft Category^1*Number of Engines^1*Total Fatal Injuries^1 + -0.000268718 * Aircraft Category^1*Number of Engines^1*Total Serious Injuries^1 + 0.000286335 * Aircraft Category^1*Number of Engines^1*Total Minor Injuries^1 + 0.000299329 * Aircraft Category^1*Number of Engines^1*Total Uninjured^1 + -0.000345670 * Aircraft Category^1*Number of Engines^1*Weather Condition^1 + -0.001257352 * Aircraft Category^1*Number of Engines^1*Broad Phase of Flight^1 + -0.000039269 * Aircraft Category^1*Number of Engines^1*Report Publication Date^1 + -0.000000000 * Aircraft Category^1*Number of Engines^1*Unnamed: 30^1 + -0.000769434 * Aircraft Category^1*Engine Type^2 + 0.004451528 * Aircraft Category^1*Engine Type^1*FAR Description^1 + -0.001594757 * Aircraft Category^1*Engine Type^1*Schedule^1 + 0.000636847 * Aircraft Category^1*Engine Type^1*Purpose of Flight^1 + 0.000074741 * Aircraft Category^1*Engine Type^1*Air Carrier^1 + 0.000288330 * Aircraft Category^1*Engine Type^1*Total Fatal Injuries^1 + -0.001878024 * Aircraft Category^1*Engine Type^1*Total Serious Injuries^1 + 0.000821290 * Aircraft Category^1*Engine Type^1*Total Minor Injuries^1 + -0.000093359 * Aircraft Category^1*Engine Type^1*Total Uninjured^1 + -0.000225959 * Aircraft Category^1*Engine Type^1*Weather Condition^1 + 0.001206792 * Aircraft Category^1*Engine Type^1*Broad Phase of Flight^1 + 0.000001730 * Aircraft Category^1*Engine Type^1*Report Publication Date^1 + 0.000000000 * Aircraft Category^1*Engine Type^1*Unnamed: 30^1 + 0.001266561 * Aircraft Category^1*FAR Description^2 + 0.001291458 * Aircraft Category^1*FAR Description^1*Schedule^1 + 0.000823511 * Aircraft Category^1*FAR Description^1*Purpose of Flight^1 + -0.000952323 * Aircraft Category^1*FAR Description^1*Air Carrier^1 + 0.000359583 * Aircraft Category^1*FAR Description^1*Total Fatal Injuries^1 + 0.000428987 * Aircraft Category^1*FAR Description^1*Total Serious Injuries^1 + -0.000401592 * Aircraft Category^1*FAR Description^1*Total Minor Injuries^1 + -0.000117994 * Aircraft Category^1*FAR Description^1*Total Uninjured^1 + -0.002156978 * Aircraft Category^1*FAR Description^1*Weather Condition^1 + -0.002806324 * Aircraft Category^1*FAR Description^1*Broad Phase of Flight^1 + -0.000003115 * Aircraft Category^1*FAR Description^1*Report Publication Date^1 + 0.000000000 * Aircraft Category^1*FAR Description^1*Unnamed: 30^1 + -0.000799237 * Aircraft Category^1*Schedule^2 + 0.000343158 * Aircraft Category^1*Schedule^1*Purpose of Flight^1 + -0.000339055 * Aircraft Category^1*Schedule^1*Air Carrier^1 + 0.002029393 * Aircraft Category^1*Schedule^1*Total Fatal Injuries^1 + -0.001387266 * Aircraft Category^1*Schedule^1*Total Serious Injuries^1 + -0.003353619 * Aircraft Category^1*Schedule^1*Total Minor Injuries^1 + -0.000305691 * Aircraft Category^1*Schedule^1*Total Uninjured^1 + -0.000233598 * Aircraft Category^1*Schedule^1*Weather

Condition^1 + -0.003552238 * Aircraft Category^1*Schedule^1*Broad Phase of Flight^1 + 0.000000608
* Aircraft Category^1*Schedule^1*Report Publication Date^1 + -0.0000000000 * Aircraft
Category^1*Schedule^1*Unnamed: 30^1 + -0.000024209 * Aircraft Category^1*Purpose of Flight^2 + -
0.000016374 * Aircraft Category^1*Purpose of Flight^1*Air Carrier^1 + 0.000041793 * Aircraft
Category^1*Purpose of Flight^1*Total Fatal Injuries^1 + -0.001717050 * Aircraft Category^1*Purpose of Flight^1*Total Serious Injuries^1 + 0.000763780 * Aircraft Category^1*Purpose of Flight^1*Total Minor Injuries^1 + 0.000005339 * Aircraft Category^1*Purpose of Flight^1*Total Uninjured^1 + 0.003738370 * Aircraft Category^1*Purpose of Flight^1*Weather Condition^1 + -0.001130378 * Aircraft
Category^1*Purpose of Flight^1*Broad Phase of Flight^1 + 0.000003358 * Aircraft Category^1*Purpose of Flight^1*Report Publication Date^1 + -0.0000000000 * Aircraft Category^1*Purpose of Flight^1*Unnamed: 30^1 + -0.000000192 * Aircraft Category^1*Air Carrier^2 + -0.000001464 * Aircraft Category^1*Air Carrier^1*Total Fatal Injuries^1 + -0.000012345 * Aircraft Category^1*Air Carrier^1*Total Serious Injuries^1 + 0.000004078 * Aircraft Category^1*Air Carrier^1*Total Minor Injuries^1 + 0.000000338 * Aircraft Category^1*Air Carrier^1*Total Uninjured^1 + -0.000056780 * Aircraft Category^1*Air Carrier^1*Weather Condition^1 + -0.000009532 * Aircraft Category^1*Air Carrier^1*Broad Phase of Flight^1 + 0.000000025 * Aircraft Category^1*Air Carrier^1*Report Publication Date^1 + 0.0000000000 * Aircraft Category^1*Air Carrier^1*Unnamed: 30^1 + -0.000089738
* Aircraft Category^1*Total Fatal Injuries^2 + 0.000593840 * Aircraft Category^1*Total Fatal Injuries^1*Total Serious Injuries^1 + -0.000600061 * Aircraft Category^1*Total Fatal Injuries^1*Total Minor Injuries^1 + -0.000045046 * Aircraft Category^1*Total Fatal Injuries^1*Total Uninjured^1 + -0.000995864 * Aircraft Category^1*Total Fatal Injuries^1*Weather Condition^1 + -0.000326057 * Aircraft Category^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + -0.000000119 * Aircraft Category^1*Total Fatal Injuries^1*Report Publication Date^1 + -0.0000000000 * Aircraft Category^1*Total Fatal Injuries^1*Unnamed: 30^1 + -0.001127963 * Aircraft Category^1*Total Serious Injuries^2 + -0.000286591 * Aircraft Category^1*Total Serious Injuries^1*Total Minor Injuries^1 + -0.000159862 * Aircraft Category^1*Total Serious Injuries^1*Total Uninjured^1 + 0.000971177 * Aircraft Category^1*Total Serious Injuries^1*Weather Condition^1 + -0.000885080 * Aircraft Category^1*Total Serious Injuries^1*Broad Phase of Flight^1 + -0.000004390 * Aircraft Category^1*Total Serious Injuries^1*Report Publication Date^1 + -0.0000000000 * Aircraft Category^1*Total Serious Injuries^1*Unnamed: 30^1 + 0.000299456 * Aircraft Category^1*Total Minor Injuries^2 + -0.000098663 * Aircraft Category^1*Total Minor Injuries^1*Total Uninjured^1 + -0.000164152 * Aircraft Category^1*Total Minor Injuries^1*Weather Condition^1 + 0.000394730 * Aircraft Category^1*Total Minor Injuries^1*Broad Phase of Flight^1 + -0.000003646 * Aircraft Category^1*Total Minor Injuries^1*Report Publication Date^1 + -0.0000000000 * Aircraft Category^1*Total Minor Injuries^1*Unnamed: 30^1 + -0.000000783 * Aircraft Category^1*Total Uninjured^2 + 0.000051236 * Aircraft Category^1*Total Uninjured^1*Weather Condition^1 + -0.000063054 * Aircraft Category^1*Total Uninjured^1*Broad Phase of Flight^1 + 0.000000065 * Aircraft Category^1*Total Uninjured^1*Report Publication Date^1 + -0.0000000000 * Aircraft Category^1*Total Uninjured^1*Unnamed: 30^1 + -0.000236437 * Aircraft Category^1*Weather Condition^2 + -0.002419245 * Aircraft Category^1*Weather Condition^1*Broad Phase of Flight^1 + -0.000026641 * Aircraft Category^1*Weather Condition^1*Report Publication Date^1 + -0.0000000000 * Aircraft Category^1*Weather Condition^1*Unnamed: 30^1 + -0.001364482 * Aircraft Category^1*Broad Phase of Flight^2 + 0.000001017 * Aircraft Category^1*Broad Phase of Flight^1*Report Publication Date^1 + 0.0000000000 * Aircraft Category^1*Broad Phase of Flight^1*Unnamed: 30^1 + 0.000000006 * Aircraft

Category^1*Report Publication Date^2 + 0.000000000 * Aircraft Category^1*Report Publication Date^1*Unnamed: 30^1 + 0.000000000 * Aircraft Category^1*Unnamed: 30^2 + 0.000000000 * Registration Number^3 + -0.000000000 * Registration Number^2*Make^1 + 0.000000000 * Registration Number^2*Model^1 + 0.000000000 * Registration Number^2*Amateur Built^1 + -0.000000000 * Registration Number^2*Number of Engines^1 + -0.000000000 * Registration Number^2*Engine Type^1 + -0.000000000 * Registration Number^2*FAR Description^1 + 0.000000000 * Registration Number^2*Schedule^1 + 0.000000000 * Registration Number^2*Purpose of Flight^1 + 0.000000000 * Registration Number^2*Air Carrier^1 + -0.000000000 * Registration Number^2>Total Fatal Injuries^1 + 0.000000000 * Registration Number^2>Total Serious Injuries^1 + -0.000000000 * Registration Number^2>Total Minor Injuries^1 + -0.000000000 * Registration Number^2>Total Uninjured^1 + 0.000000000 * Registration Number^2*Weather Condition^1 + -0.000000000 * Registration Number^2*Broad Phase of Flight^1 + 0.000000000 * Registration Number^2*Report Publication Date^1 + -0.000000000 * Registration Number^2*Unnamed: 30^1 + 0.000000000 * Registration Number^1*Make^2 + -0.000000000 * Registration Number^1*Make^1*Model^1 + -0.000000000 * Registration Number^1*Make^1*Amateur Built^1 + 0.000000000 * Registration Number^1*Make^1*Number of Engines^1 + -0.000000000 * Registration Number^1*Make^1*Engine Type^1 + 0.000000000 * Registration Number^1*Make^1*FAR Description^1 + -0.000000000 * Registration Number^1*Make^1*Schedule^1 + 0.000000000 * Registration Number^1*Make^1*Purpose of Flight^1 + 0.000000000 * Registration Number^1*Make^1*Air Carrier^1 + 0.000000000 * Registration Number^1*Make^1*Total Fatal Injuries^1 + 0.000000000 * Registration Number^1*Make^1*Total Serious Injuries^1 + 0.000000000 * Registration Number^1*Make^1*Total Minor Injuries^1 + 0.000000000 * Registration Number^1*Make^1*Total Uninjured^1 + 0.000000000 * Registration Number^1*Make^1*Weather Condition^1 + -0.000000000 * Registration Number^1*Make^1*Broad Phase of Flight^1 + -0.000000000 * Registration Number^1*Make^1*Report Publication Date^1 + -0.000000000 * Registration Number^1*Make^1*Unnamed: 30^1 + 0.000000000 * Registration Number^1*Model^2 + -0.000000000 * Registration Number^1*Model^1*Amateur Built^1 + 0.000000000 * Registration Number^1*Model^1*Number of Engines^1 + 0.000000000 * Registration Number^1*Model^1*Model^1*Engine Type^1 + 0.000000000 * Registration Number^1*Model^1*FAR Description^1 + 0.000000000 * Registration Number^1*Model^1*Schedule^1 + -0.000000000 * Registration Number^1*Model^1*Purpose of Flight^1 + 0.000000000 * Registration Number^1*Model^1*Air Carrier^1 + -0.000000000 * Registration Number^1*Model^1*Total Fatal Injuries^1 + -0.000000000 * Registration Number^1*Model^1*Total Serious Injuries^1 + -0.000000000 * Registration Number^1*Model^1*Total Minor Injuries^1 + -0.000000000 * Registration Number^1*Model^1*Total Uninjured^1 + -0.000000000 * Registration Number^1*Model^1*Weather Condition^1 + 0.000000000 * Registration Number^1*Model^1*Broad Phase of Flight^1 + 0.000000000 * Registration Number^1*Model^1*Report Publication Date^1 + -0.000000000 * Registration Number^1*Model^1*Unnamed: 30^1 + -0.000003597 * Registration Number^1*Amateur Built^2 + -0.00000202 * Registration Number^1*Amateur Built^1*Number of Engines^1 + -0.000000496 * Registration Number^1*Amateur Built^1*Engine Type^1 + 0.000000010 * Registration Number^1*Amateur Built^1*FAR Description^1 + 0.000000560 * Registration Number^1*Amateur Built^1*Schedule^1 + -0.000000023 * Registration Number^1*Amateur Built^1*Purpose of Flight^1 + -0.000000084 * Registration Number^1*Amateur Built^1*Air Carrier^1 + 0.000000037 * Registration Number^1*Amateur Built^1*Total Fatal Injuries^1 + -0.000000000 * Registration Number^1*Amateur

Built^1*Total Serious Injuries^1 + 0.000000020 * Registration Number^1*Amateur Built^1*Total Minor Injuries^1 + 0.000000036 * Registration Number^1*Amateur Built^1*Total Uninjured^1 + 0.000001207 * Registration Number^1*Amateur Built^1*Weather Condition^1 + -0.000000015 * Registration Number^1*Amateur Built^1*Broad Phase of Flight^1 + -0.000000001 * Registration Number^1*Amateur Built^1*Report Publication Date^1 + -0.000000000 * Registration Number^1*Amateur Built^1*Unnamed: 30^1 + -0.000000376 * Registration Number^1*Number of Engines^2 + -0.000000210 * Registration Number^1*Number of Engines^1*Engine Type^1 + 0.000000016 * Registration Number^1*Number of Engines^1*FAR Description^1 + -0.000000565 * Registration Number^1*Number of Engines^1*Schedule^1 + 0.000000071 * Registration Number^1*Number of Engines^1*Purpose of Flight^1 + 0.000000001 * Registration Number^1*Number of Engines^1*Air Carrier^1 + 0.000000012 * Registration Number^1*Number of Engines^1*Total Fatal Injuries^1 + 0.000000027 * Registration Number^1*Number of Engines^1*Total Serious Injuries^1 + 0.000000101 * Registration Number^1*Number of Engines^1*Total Minor Injuries^1 + -0.000000001 * Registration Number^1*Number of Engines^1*Total Uninjured^1 + -0.000000305 * Registration Number^1*Number of Engines^1*Weather Condition^1 + 0.000000114 * Registration Number^1*Number of Engines^1*Broad Phase of Flight^1 + 0.000000000 * Registration Number^1*Number of Engines^1*Report Publication Date^1 + 0.000000000 * Registration Number^1*Number of Engines^1*Unnamed: 30^1 + 0.000000137 * Registration Number^1*Engine Type^2 + 0.000000056 * Registration Number^1*Engine Type^1*FAR Description^1 + 0.000000002 * Registration Number^1*Engine Type^1*Schedule^1 + 0.000000011 * Registration Number^1*Engine Type^1*Purpose of Flight^1 + 0.000000000 * Registration Number^1*Engine Type^1*Air Carrier^1 + 0.000000005 * Registration Number^1*Engine Type^1*Total Fatal Injuries^1 + 0.000000033 * Registration Number^1*Engine Type^1*Total Serious Injuries^1 + -0.000000018 * Registration Number^1*Engine Type^1*Total Minor Injuries^1 + -0.000000002 * Registration Number^1*Engine Type^1*Total Uninjured^1 + -0.000000049 * Registration Number^1*Engine Type^1*Weather Condition^1 + 0.000000009 * Registration Number^1*Engine Type^1*Broad Phase of Flight^1 + -0.000000000 * Registration Number^1*Engine Type^1*Report Publication Date^1 + -0.000000000 * Registration Number^1*Engine Type^1*Unnamed: 30^1 + -0.000000023 * Registration Number^1*FAR Description^2 + 0.000000078 * Registration Number^1*FAR Description^1*Schedule^1 + 0.000000012 * Registration Number^1*FAR Description^1*Purpose of Flight^1 + -0.000000000 * Registration Number^1*FAR Description^1*Air Carrier^1 + 0.000000006 * Registration Number^1*FAR Description^1*Total Fatal Injuries^1 + -0.000000024 * Registration Number^1*FAR Description^1*Total Serious Injuries^1 + 0.000000006 * Registration Number^1*FAR Description^1*Total Minor Injuries^1 + 0.000000000 * Registration Number^1*FAR Description^1*Total Uninjured^1 + 0.000000066 * Registration Number^1*FAR Description^1*Weather Condition^1 + -0.000000032 * Registration Number^1*FAR Description^1*Broad Phase of Flight^1 + -0.000000000 * Registration Number^1*FAR Description^1*Report Publication Date^1 + 0.000000000 * Registration Number^1*FAR Description^1*Unnamed: 30^1 + -0.000000261 * Registration Number^1*Schedule^2 + -0.000000018 * Registration Number^1*Schedule^1*Schedule^1*Purpose of Flight^1 + -0.000000000 * Registration Number^1*Schedule^1*Air Carrier^1 + 0.000000009 * Registration Number^1*Schedule^1*Total Fatal Injuries^1 + -0.000000036 * Registration Number^1*Schedule^1*Total Serious Injuries^1 + 0.000000046 * Registration Number^1*Schedule^1*Total Minor Injuries^1 + 0.000000000 * Registration Number^1*Schedule^1*Total Uninjured^1 + 0.000000070 * Registration Number^1*Schedule^1*Weather Condition^1 + 0.000000038 * Registration

Number^1*Schedule^1*Broad Phase of Flight^1 + 0.000000000 * Registration
Number^1*Schedule^1*Report Publication Date^1 + 0.000000000 * Registration
Number^1*Schedule^1*Unnamed: 30^1 + -0.000000006 * Registration Number^1*Purpose of Flight^2
+ 0.000000000 * Registration Number^1*Purpose of Flight^1*Air Carrier^1 + -0.000000001 *
Registration Number^1*Purpose of Flight^1*Total Fatal Injuries^1 + 0.000000005 * Registration
Number^1*Purpose of Flight^1*Total Serious Injuries^1 + 0.000000002 * Registration
Number^1*Purpose of Flight^1*Total Minor Injuries^1 + -0.000000000 * Registration
Number^1*Purpose of Flight^1*Total Uninjured^1 + -0.000000052 * Registration Number^1*Purpose of Flight^1*Weather Condition^1 + -0.000000030 * Registration Number^1*Purpose of Flight^1*Report Publication Date^1 + -0.000000000 * Registration Number^1*Purpose of Flight^1*Unnamed: 30^1 + -0.000000000 * Registration Number^1*Air Carrier^2 + 0.000000000 * Registration Number^1*Air Carrier^1*Total Fatal Injuries^1 + 0.000000000 * Registration Number^1*Air Carrier^1*Total Serious Injuries^1 + -0.000000000 * Registration Number^1*Air Carrier^1*Total Minor Injuries^1 + 0.000000000 * Registration Number^1*Air Carrier^1*Total Uninjured^1 + 0.000000000 * Registration Number^1*Air Carrier^1*Broad Phase of Flight^1 + -0.000000000 * Registration Number^1*Air Carrier^1*Report Publication Date^1 + -0.000000000 * Registration Number^1*Air Carrier^1*Unnamed: 30^1 + -0.000000003 * Registration Number^1*Total Fatal Injuries^2 + -0.000000007 * Registration Number^1*Total Fatal Injuries^1*Total Serious Injuries^1 + -0.000000004 * Registration Number^1*Total Fatal Injuries^1*Total Minor Injuries^1 + -0.000000000 * Registration Number^1*Total Fatal Injuries^1*Total Uninjured^1 + -0.000000015 * Registration Number^1*Total Fatal Injuries^1*Weather Condition^1 + 0.000000004 * Registration Number^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + -0.000000000 * Registration Number^1*Total Fatal Injuries^1*Report Publication Date^1 + 0.000000000 * Registration Number^1*Total Fatal Injuries^1*Unnamed: 30^1 + 0.000000013 * Registration Number^1*Total Serious Injuries^2 + -0.000000007 * Registration Number^1*Total Serious Injuries^1*Total Minor Injuries^1 + -0.000000003 * Registration Number^1*Total Serious Injuries^1*Total Uninjured^1 + -0.000000077 * Registration Number^1*Total Serious Injuries^1*Weather Condition^1 + -0.000000016 * Registration Number^1*Total Serious Injuries^1*Broad Phase of Flight^1 + -0.000000000 * Registration Number^1*Total Serious Injuries^1*Report Publication Date^1 + -0.000000000 * Registration Number^1*Total Serious Injuries^1*Unnamed: 30^1 + -0.000000001 * Registration Number^1*Total Minor Injuries^2 + 0.000000000 * Registration Number^1*Total Minor Injuries^1*Total Uninjured^1 + 0.000000032 * Registration Number^1*Total Minor Injuries^1*Weather Condition^1 + -0.000000010 * Registration Number^1*Total Minor Injuries^1*Broad Phase of Flight^1 + 0.000000000 * Registration Number^1*Total Minor Injuries^1*Report Publication Date^1 + 0.000000000 * Registration Number^1*Total Minor Injuries^1*Unnamed: 30^1 + 0.000000000 * Registration Number^1*Total Uninjured^2 + -0.000000003 * Registration Number^1*Total Uninjured^1*Weather Condition^1 + -0.000000000 * Registration Number^1*Total Uninjured^1*Broad Phase of Flight^1 + -0.000000000 * Registration Number^1*Total Uninjured^1*Report Publication Date^1 + -0.000000000 * Registration Number^1*Total Uninjured^1*Unnamed: 30^1 + 0.000000542 * Registration Number^1*Weather Condition^2 + 0.000000043 * Registration Number^1*Weather Condition^1*Broad Phase of Flight^1 + -0.000000000 * Registration Number^1*Weather Condition^1*Report Publication Date^1 + 0.000000000 * Registration Number^1*Weather Condition^1*Unnamed: 30^1 + 0.000000009 * Registration Number^1*Broad Phase of Flight^2 + -0.000000000 * Registration Number^1*Broad Phase of

Flight^1*Report Publication Date^1 + -0.000000000 * Registration Number^1*Broad Phase of Flight^1*Unnamed: 30^1 + 0.000000000 * Registration Number^1*Report Publication Date^2 + 0.000000000 * Registration Number^1*Report Publication Date^1*Unnamed: 30^1 + 0.000000000 * Registration Number^1*Unnamed: 30^2 + 0.000000000 * Make^3 + 0.000000000 * Make^2*Model^1 + -0.000000007 * Make^2*Amateur Built^1 + 0.000000004 * Make^2*Number of Engines^1 + -0.000000001 * Make^2*Engine Type^1 + 0.000000000 * Make^2*FAR Description^1 + -0.000000005 * Make^2*Schedule^1 + -0.000000000 * Make^2*Purpose of Flight^1 + 0.000000000 * Make^2*Air Carrier^1 + 0.000000000 * Make^2>Total Fatal Injuries^1 + 0.000000000 * Make^2>Total Serious Injuries^1 + 0.000000000 * Make^2>Total Minor Injuries^1 + -0.000000000 * Make^2>Total Uninjured^1 + 0.000000001 * Make^2*Weather Condition^1 + 0.000000000 * Make^2*Broad Phase of Flight^1 + -0.000000000 * Make^2*Report Publication Date^1 + 0.000000000 * Make^2*Unnamed: 30^1 + -0.000000000 * Make^1*Model^2 + 0.000000001 * Make^1*Model^1*Amateur Built^1 + 0.000000002 * Make^1*Model^1*Number of Engines^1 + -0.000000001 * Make^1*Model^1*Engine Type^1 + 0.000000000 * Make^1*Model^1*FAR Description^1 + -0.000000001 * Make^1*Model^1*Schedule^1 + -0.000000000 * Make^1*Model^1*Purpose of Flight^1 + -0.000000000 * Make^1*Model^1*Air Carrier^1 + 0.000000000 * Make^1*Model^1>Total Fatal Injuries^1 + -0.000000000 * Make^1*Model^1>Total Serious Injuries^1 + 0.000000000 * Make^1*Model^1>Total Minor Injuries^1 + -0.000000000 * Make^1*Model^1>Total Uninjured^1 + 0.000000001 * Make^1*Model^1*Weather Condition^1 + -0.000000000 * Make^1*Model^1*Broad Phase of Flight^1 + -0.000000000 * Make^1*Model^1*Report Publication Date^1 + -0.000000000 * Make^1*Model^1*Unnamed: 30^1 + -0.000011301 * Make^1*Amateur Built^2 + 0.000066096 * Make^1*Amateur Built^1*Number of Engines^1 + 0.000020401 * Make^1*Amateur Built^1*Engine Type^1 + 0.00000665 * Make^1*Amateur Built^1*FAR Description^1 + 0.000015977 * Make^1*Amateur Built^1*Schedule^1 + -0.000006598 * Make^1*Amateur Built^1*Purpose of Flight^1 + 0.000001292 * Make^1*Amateur Built^1*Air Carrier^1 + 0.000000585 * Make^1*Amateur Built^1>Total Fatal Injuries^1 + -0.000001689 * Make^1*Amateur Built^1>Total Serious Injuries^1 + 0.000001277 * Make^1*Amateur Built^1>Total Minor Injuries^1 + 0.000000126 * Make^1*Amateur Built^1>Total Uninjured^1 + -0.000041518 * Make^1*Amateur Built^1*Weather Condition^1 + -0.000000968 * Make^1*Amateur Built^1*Broad Phase of Flight^1 + -0.000000012 * Make^1*Amateur Built^1*Report Publication Date^1 + -0.000000000 * Make^1*Amateur Built^1*Unnamed: 30^1 + 0.000006728 * Make^1*Number of Engines^2 + -0.000006112 * Make^1*Number of Engines^1*Engine Type^1 + -0.000000068 * Make^1*Number of Engines^1*FAR Description^1 + 0.000012006 * Make^1*Number of Engines^1*Schedule^1 + 0.000000201 * Make^1*Number of Engines^1*Purpose of Flight^1 + -0.000000017 * Make^1*Number of Engines^1*Air Carrier^1 + 0.000000053 * Make^1*Number of Engines^1>Total Fatal Injuries^1 + -0.000000294 * Make^1*Number of Engines^1>Total Serious Injuries^1 + 0.000001586 * Make^1*Number of Engines^1>Total Minor Injuries^1 + 0.000000116 * Make^1*Number of Engines^1>Total Uninjured^1 + 0.000002261 * Make^1*Number of Engines^1*Weather Condition^1 + -0.000001368 * Make^1*Number of Engines^1*Broad Phase of Flight^1 + 0.000000000 * Make^1*Number of Engines^1*Report Publication Date^1 + 0.000000000 * Make^1*Number of Engines^1*Unnamed: 30^1 + 0.000000924 * Make^1*Engine Type^2 + -0.000001667 * Make^1*Engine Type^1*FAR Description^1 + -0.000003861 * Make^1*Engine Type^1*Schedule^1 + -0.000000666 * Make^1*Engine Type^1*Purpose of Flight^1 + 0.000000008 * Make^1*Engine Type^1*Air Carrier^1 + 0.000000118 * Make^1*Engine Type^1>Total Fatal Injuries^1 + 0.000001252 * Make^1*Engine Type^1>Total Serious Injuries^1 + 0.000000462 *

Make^1*Engine Type^1*Total Minor Injuries^1 + 0.000000027 * Make^1*Engine Type^1*Total Uninjured^1 + -0.000001843 * Make^1*Engine Type^1*Weather Condition^1 + 0.000000989 * Make^1*Engine Type^1*Broad Phase of Flight^1 + 0.000000001 * Make^1*Engine Type^1*Report Publication Date^1 + -0.000000000 * Make^1*Engine Type^1*Unnamed: 30^1 + -0.000000014 * Make^1*FAR Description^2 + 0.000000051 * Make^1*FAR Description^1*Schedule^1 + -0.000000223 * Make^1*FAR Description^1*Purpose of Flight^1 + 0.000000000 * Make^1*FAR Description^1*Air Carrier^1 + -0.000000026 * Make^1*FAR Description^1*Total Fatal Injuries^1 + -0.000000051 * Make^1*FAR Description^1*Total Serious Injuries^1 + -0.000000233 * Make^1*FAR Description^1*Total Minor Injuries^1 + -0.000000009 * Make^1*FAR Description^1*Total Uninjured^1 + 0.000000921 * Make^1*FAR Description^1*Weather Condition^1 + 0.000000136 * Make^1*FAR Description^1*Broad Phase of Flight^1 + 0.000000003 * Make^1*FAR Description^1*Report Publication Date^1 + 0.000000000 * Make^1*FAR Description^1*Unnamed: 30^1 + 0.000010046 * Make^1*Schedule^2 + 0.000001164 * Make^1*Schedule^1*Purpose of Flight^1 + -0.000000008 * Make^1*Schedule^1*Air Carrier^1 + -0.000000296 * Make^1*Schedule^1*Total Fatal Injuries^1 + 0.000000201 * Make^1*Schedule^1*Total Serious Injuries^1 + -0.000001392 * Make^1*Schedule^1*Total Minor Injuries^1 + -0.000000091 * Make^1*Schedule^1*Total Uninjured^1 + -0.000004601 * Make^1*Schedule^1*Weather Condition^1 + -0.000000310 * Make^1*Schedule^1*Broad Phase of Flight^1 + -0.000000002 * Make^1*Schedule^1*Report Publication Date^1 + 0.000000000 * Make^1*Schedule^1*Unnamed: 30^1 + 0.000000162 * Make^1*Purpose of Flight^2 + -0.000000001 * Make^1*Purpose of Flight^1*Air Carrier^1 + 0.000000011 * Make^1*Purpose of Flight^1*Total Fatal Injuries^1 + -0.000000236 * Make^1*Purpose of Flight^1*Total Serious Injuries^1 + 0.000000230 * Make^1*Purpose of Flight^1*Total Minor Injuries^1 + -0.000000001 * Make^1*Purpose of Flight^1*Total Uninjured^1 + 0.000002114 * Make^1*Purpose of Flight^1*Weather Condition^1 + 0.000000006 * Make^1*Purpose of Flight^1*Broad Phase of Flight^1 + 0.000000001 * Make^1*Purpose of Flight^1*Report Publication Date^1 + 0.000000000 * Make^1*Purpose of Flight^1*Unnamed: 30^1 + -0.000000000 * Make^1*Air Carrier^2 + -0.000000001 * Make^1*Air Carrier^1*Total Fatal Injuries^1 + 0.000000004 * Make^1*Air Carrier^1*Total Serious Injuries^1 + 0.000000002 * Make^1*Air Carrier^1*Total Minor Injuries^1 + 0.000000000 * Make^1*Air Carrier^1*Total Uninjured^1 + -0.000000011 * Make^1*Air Carrier^1*Weather Condition^1 + 0.000000000 * Make^1*Air Carrier^1*Broad Phase of Flight^1 + -0.000000000 * Make^1*Air Carrier^1*Report Publication Date^1 + 0.000000000 * Make^1*Air Carrier^1*Unnamed: 30^1 + -0.000000061 * Make^1*Total Fatal Injuries^2 + -0.000000128 * Make^1*Total Fatal Injuries^1*Total Serious Injuries^1 + -0.000000145 * Make^1*Total Fatal Injuries^1*Total Minor Injuries^1 + 0.000000030 * Make^1*Total Fatal Injuries^1*Total Uninjured^1 + 0.000000023 * Make^1*Total Fatal Injuries^1*Weather Condition^1 + -0.000000081 * Make^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + 0.000000000 * Make^1*Total Fatal Injuries^1*Report Publication Date^1 + 0.000000000 * Make^1*Total Fatal Injuries^1*Unnamed: 30^1 + 0.000000164 * Make^1*Total Serious Injuries^2 + -0.000000080 * Make^1*Total Serious Injuries^1*Total Minor Injuries^1 + -0.000000004 * Make^1*Total Serious Injuries^1*Total Uninjured^1 + 0.000003949 * Make^1*Total Serious Injuries^1*Weather Condition^1 + 0.000000074 * Make^1*Total Serious Injuries^1*Broad Phase of Flight^1 + 0.000000000 * Make^1*Total Serious Injuries^1*Report Publication Date^1 + -0.000000000 * Make^1*Total Serious Injuries^1*Unnamed: 30^1 + -0.000000064 * Make^1*Total Minor Injuries^2 + -0.000000018 * Make^1*Total Minor Injuries^1*Total Uninjured^1 + 0.000000916 * Make^1*Total Minor Injuries^1*Weather Condition^1 + 0.000000160 * Make^1*Total

Minor Injuries^1*Broad Phase of Flight^1 + -0.000000000 * Make^1*Total Minor Injuries^1*Report Publication Date^1 + -0.000000000 * Make^1*Total Minor Injuries^1*Unnamed: 30^1 + -0.000000001 * Make^1*Total Uninjured^2 + 0.000000035 * Make^1*Total Uninjured^1*Weather Condition^1 + 0.000000034 * Make^1*Total Uninjured^1*Broad Phase of Flight^1 + -0.000000000 * Make^1*Total Uninjured^1*Report Publication Date^1 + 0.000000000 * Make^1*Total Uninjured^1*Unnamed: 30^1 + 0.000006153 * Make^1*Weather Condition^2 + -0.000001105 * Make^1*Weather Condition^1*Broad Phase of Flight^1 + -0.000000004 * Make^1*Weather Condition^1*Report Publication Date^1 + 0.000000000 * Make^1*Weather Condition^1*Unnamed: 30^1 + -0.000000346 * Make^1*Broad Phase of Flight^2 + -0.000000000 * Make^1*Broad Phase of Flight^1*Report Publication Date^1 + 0.000000000 * Make^1*Broad Phase of Flight^1*Unnamed: 30^1 + -0.000000000 * Make^1*Report Publication Date^2 + 0.000000000 * Make^1*Report Publication Date^1*Unnamed: 30^1 + -0.000000000 * Make^1*Unnamed: 30^2 + -0.000000000 * Model^3 + -0.000000001 * Model^2*Amateur Built^1 + 0.000000001 * Model^2*Number of Engines^1 + 0.000000001 * Model^2*Engine Type^1 + -0.000000000 * Model^2*FAR Description^1 + 0.000000001 * Model^2*Schedule^1 + 0.000000000 * Model^2*Purpose of Flight^1 + -0.000000000 * Model^2*Air Carrier^1 + -0.000000000 * Model^2*Total Fatal Injuries^1 + -0.000000000 * Model^2*Total Serious Injuries^1 + -0.000000000 * Model^2*Total Minor Injuries^1 + -0.000000000 * Model^2*Total Uninjured^1 + 0.000000000 * Model^2*Weather Condition^1 + 0.000000000 * Model^2*Broad Phase of Flight^1 + 0.000000000 * Model^2*Report Publication Date^1 + 0.000000000 * Model^2*Unnamed: 30^1 + -0.000000503 * Model^1*Amateur Built^2 + -0.000016136 * Model^1*Amateur Built^1*Number of Engines^1 + -0.000001196 * Model^1*Amateur Built^1*Engine Type^1 + -0.000000977 * Model^1*Amateur Built^1*FAR Description^1 + -0.000000045 * Model^1*Amateur Built^1*Schedule^1 + 0.000001359 * Model^1*Amateur Built^1*Purpose of Flight^1 + -0.000000098 * Model^1*Amateur Built^1*Air Carrier^1 + 0.000000588 * Model^1*Amateur Built^1*Total Fatal Injuries^1 + -0.000002047 * Model^1*Amateur Built^1*Total Serious Injuries^1 + 0.000001442 * Model^1*Amateur Built^1*Total Minor Injuries^1 + 0.000000075 * Model^1*Amateur Built^1*Total Uninjured^1 + 0.000008902 * Model^1*Amateur Built^1*Weather Condition^1 + -0.000001221 * Model^1*Amateur Built^1*Broad Phase of Flight^1 + 0.000000008 * Model^1*Amateur Built^1*Report Publication Date^1 + 0.000000000 * Model^1*Amateur Built^1*Unnamed: 30^1 + -0.000001830 * Model^1*Number of Engines^2 + -0.000001527 * Model^1*Number of Engines^1*Engine Type^1 + -0.000000957 * Model^1*Number of Engines^1*FAR Description^1 + 0.000005019 * Model^1*Number of Engines^1*Schedule^1 + -0.000000743 * Model^1*Number of Engines^1*Purpose of Flight^1 + -0.000000027 * Model^1*Number of Engines^1*Air Carrier^1 + -0.000000150 * Model^1*Number of Engines^1*Total Fatal Injuries^1 + 0.000000391 * Model^1*Number of Engines^1*Total Serious Injuries^1 + -0.000000722 * Model^1*Number of Engines^1*Total Minor Injuries^1 + -0.000000019 * Model^1*Number of Engines^1*Total Uninjured^1 + -0.000005242 * Model^1*Number of Engines^1*Weather Condition^1 + -0.000000006 * Model^1*Number of Engines^1*Broad Phase of Flight^1 + 0.000000006 * Model^1*Number of Engines^1*Report Publication Date^1 + 0.000000000 * Model^1*Number of Engines^1*Unnamed: 30^1 + 0.000000313 * Model^1*Engine Type^2 + 0.000000784 * Model^1*Engine Type^1*FAR Description^1 + 0.000000385 * Model^1*Engine Type^1*Schedule^1 + 0.000000088 * Model^1*Engine Type^1*Purpose of Flight^1 + 0.000000004 * Model^1*Engine Type^1*Air Carrier^1 + -0.000000023 * Model^1*Engine Type^1*Total Fatal Injuries^1 + -0.000000369 * Model^1*Engine Type^1*Total Serious Injuries^1 + -0.000000181 * Model^1*Engine Type^1*Total Minor Injuries^1 + -0.000000018 * Model^1*Engine Type^1*Total Uninjured^1 + 0.000001480 * Model^1*Engine

Type^1*Weather Condition^1 + -0.000000514 * Model^1*Engine Type^1*Broad Phase of Flight^1 + 0.000000001 * Model^1*Engine Type^1*Report Publication Date^1 + 0.000000000 * Model^1*Engine Type^1*Unnamed: 30^1 + 0.000000042 * Model^1*FAR Description^2 + -0.000000281 * Model^1*FAR Description^1*Schedule^1 + -0.000000082 * Model^1*FAR Description^1*Purpose of Flight^1 + 0.000000002 * Model^1*FAR Description^1*Air Carrier^1 + -0.000000008 * Model^1*FAR Description^1*Total Fatal Injuries^1 + -0.000000180 * Model^1*FAR Description^1*Total Serious Injuries^1 + 0.000000179 * Model^1*FAR Description^1*Total Minor Injuries^1 + 0.000000001 * Model^1*FAR Description^1*Total Uninjured^1 + -0.000000280 * Model^1*FAR Description^1*Weather Condition^1 + -0.000000015 * Model^1*FAR Description^1*Broad Phase of Flight^1 + -0.000000001 * Model^1*FAR Description^1*Report Publication Date^1 + -0.000000000 * Model^1*FAR Description^1*Unnamed: 30^1 + -0.000001267 * Model^1*Schedule^2 + 0.000000416 * Model^1*Schedule^1*Purpose of Flight^1 + 0.000000031 * Model^1*Schedule^1*Air Carrier^1 + -0.000000096 * Model^1*Schedule^1*Total Fatal Injuries^1 + -0.000000347 * Model^1*Schedule^1*Total Serious Injuries^1 + 0.000000903 * Model^1*Schedule^1*Total Minor Injuries^1 + 0.000000044 * Model^1*Schedule^1*Total Uninjured^1 + 0.000000323 * Model^1*Schedule^1*Weather Condition^1 + 0.000000316 * Model^1*Schedule^1*Broad Phase of Flight^1 + 0.000000001 * Model^1*Schedule^1*Report Publication Date^1 + -0.000000000 * Model^1*Schedule^1*Unnamed: 30^1 + 0.000000041 * Model^1*Purpose of Flight^2 + 0.000000001 * Model^1*Purpose of Flight^1*Air Carrier^1 + -0.000000036 * Model^1*Purpose of Flight^1*Total Fatal Injuries^1 + 0.000000158 * Model^1*Purpose of Flight^1*Total Serious Injuries^1 + 0.000000059 * Model^1*Purpose of Flight^1*Total Minor Injuries^1 + -0.000000002 * Model^1*Purpose of Flight^1*Total Uninjured^1 + -0.000000448 * Model^1*Purpose of Flight^1*Weather Condition^1 + 0.000000105 * Model^1*Purpose of Flight^1*Broad Phase of Flight^1 + -0.000000000 * Model^1*Purpose of Flight^1*Report Publication Date^1 + 0.000000000 * Model^1*Purpose of Flight^1*Unnamed: 30^1 + 0.000000000 * Model^1*Air Carrier^2 + 0.000000000 * Model^1*Air Carrier^1*Total Fatal Injuries^1 + -0.000000004 * Model^1*Air Carrier^1*Total Serious Injuries^1 + -0.000000000 * Model^1*Air Carrier^1*Total Minor Injuries^1 + -0.000000000 * Model^1*Air Carrier^1*Total Uninjured^1 + 0.000000002 * Model^1*Air Carrier^1*Weather Condition^1 + -0.000000000 * Model^1*Air Carrier^1*Broad Phase of Flight^1 + -0.000000000 * Model^1*Air Carrier^1*Report Publication Date^1 + 0.000000000 * Model^1*Air Carrier^1*Unnamed: 30^1 + -0.000000024 * Model^1*Total Fatal Injuries^2 + -0.000000018 * Model^1*Total Fatal Injuries^1*Total Serious Injuries^1 + 0.000000106 * Model^1*Total Fatal Injuries^1*Total Minor Injuries^1 + -0.000000007 * Model^1*Total Fatal Injuries^1*Total Uninjured^1 + 0.000000025 * Model^1*Total Fatal Injuries^1*Weather Condition^1 + -0.000000017 * Model^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + -0.000000000 * Model^1*Total Fatal Injuries^1*Report Publication Date^1 + 0.000000000 * Model^1*Total Fatal Injuries^1*Unnamed: 30^1 + 0.000000195 * Model^1*Total Serious Injuries^2 + -0.000000088 * Model^1*Total Serious Injuries^1*Total Minor Injuries^1 + 0.000000048 * Model^1*Total Serious Injuries^1*Total Uninjured^1 + -0.000001410 * Model^1*Total Serious Injuries^1*Weather Condition^1 + -0.000000087 * Model^1*Total Serious Injuries^1*Broad Phase of Flight^1 + 0.000000001 * Model^1*Total Serious Injuries^1*Report Publication Date^1 + 0.000000000 * Model^1*Total Serious Injuries^1*Unnamed: 30^1 + 0.000000029 * Model^1*Total Minor Injuries^2 + -0.000000008 * Model^1*Total Minor Injuries^1*Total Uninjured^1 + 0.000000299 * Model^1*Total Minor Injuries^1*Weather Condition^1 + -0.000000074 * Model^1*Total Minor Injuries^1*Broad Phase of Flight^1 + -0.000000000 * Model^1*Total Minor Injuries^1*Report Publication Date^1 + 0.000000000

* Model^1*Total Minor Injuries^1*Unnamed: 30^1 + 0.000000000 * Model^1*Total Uninjured^2 + -0.000000009 * Model^1*Total Uninjured^1*Weather Condition^1 + -0.000000010 * Model^1*Total Uninjured^1*Broad Phase of Flight^1 + -0.000000000 * Model^1*Total Uninjured^1*Report Publication Date^1 + 0.000000000 * Model^1*Total Uninjured^1*Unnamed: 30^1 + 0.000006918 * Model^1*Weather Condition^2 + 0.000000453 * Model^1*Weather Condition^1*Broad Phase of Flight^1 + 0.000000003 * Model^1*Weather Condition^1*Report Publication Date^1 + 0.000000000 * Model^1*Weather Condition^1*Unnamed: 30^1 + 0.000000093 * Model^1*Broad Phase of Flight^2 + -0.000000000 * Model^1*Broad Phase of Flight^1*Report Publication Date^1 + 0.000000000 * Model^1*Broad Phase of Flight^1*Unnamed: 30^1 + 0.000000000 * Model^1*Report Publication Date^2 + 0.000000000 * Model^1*Report Publication Date^1*Unnamed: 30^1 + 0.000000000 * Model^1*Report Publication Date^2 + -0.000032400 * Amateur Built^3 + -0.000178349 * Amateur Built^2*Number of Engines^1 + 0.000287988 * Amateur Built^2*Engine Type^1 + 0.000264898 * Amateur Built^2*FAR Description^1 + -0.000154010 * Amateur Built^2*Schedule^1 + -0.000503932 * Amateur Built^2*Purpose of Flight^1 + -0.000184047 * Amateur Built^2*Air Carrier^1 + -0.000484695 * Amateur Built^2*Total Fatal Injuries^1 + -0.000311619 * Amateur Built^2*Total Serious Injuries^1 + -0.000329154 * Amateur Built^2*Total Minor Injuries^1 + -0.002252815 * Amateur Built^2*Total Uninjured^1 + -0.000213232 * Amateur Built^2*Weather Condition^1 + -0.000328664 * Amateur Built^2*Broad Phase of Flight^1 + 0.000188341 * Amateur Built^2*Report Publication Date^1 + 0.000000000 * Amateur Built^2*Unnamed: 30^1 + 0.000105150 * Amateur Built^1*Number of Engines^2 + 0.000639878 * Amateur Built^1*Number of Engines^1*Engine Type^1 + -0.001928679 * Amateur Built^1*Number of Engines^1*FAR Description^1 + -0.000075405 * Amateur Built^1*Number of Engines^1*Schedule^1 + -0.002578892 * Amateur Built^1*Number of Engines^1*Purpose of Flight^1 + -0.000203536 * Amateur Built^1*Number of Engines^1*Air Carrier^1 + -0.003960877 * Amateur Built^1*Number of Engines^1*Total Fatal Injuries^1 + -0.000007032 * Amateur Built^1*Number of Engines^1*Total Serious Injuries^1 + -0.000312696 * Amateur Built^1*Number of Engines^1*Total Minor Injuries^1 + 0.000981947 * Amateur Built^1*Number of Engines^1*Total Uninjured^1 + -0.000197203 * Amateur Built^1*Number of Engines^1*Weather Condition^1 + 0.000601387 * Amateur Built^1*Number of Engines^1*Broad Phase of Flight^1 + -0.000033451 * Amateur Built^1*Number of Engines^1*Report Publication Date^1 + 0.000000000 * Amateur Built^1*Number of Engines^1*Unnamed: 30^1 + 0.001055902 * Amateur Built^1*Engine Type^2 + -0.003085151 * Amateur Built^1*Engine Type^1*FAR Description^1 + 0.000219287 * Amateur Built^1*Engine Type^1*Schedule^1 + 0.002283840 * Amateur Built^1*Engine Type^1*Purpose of Flight^1 + -0.000160225 * Amateur Built^1*Engine Type^1*Air Carrier^1 + -0.000700032 * Amateur Built^1*Engine Type^1*Total Fatal Injuries^1 + -0.003173085 * Amateur Built^1*Engine Type^1*Total Serious Injuries^1 + -0.007642648 * Amateur Built^1*Engine Type^1*Total Minor Injuries^1 + 0.000077219 * Amateur Built^1*Engine Type^1*Total Uninjured^1 + 0.000299488 * Amateur Built^1*Engine Type^1*Weather Condition^1 + -0.004219157 * Amateur Built^1*Engine Type^1*Broad Phase of Flight^1 + 0.000005128 * Amateur Built^1*Engine Type^1*Report Publication Date^1 + 0.000000000 * Amateur Built^1*Engine Type^1*Unnamed: 30^1 + 0.003381867 * Amateur Built^1*FAR Description^2 + 0.000143341 * Amateur Built^1*FAR Description^1*Schedule^1 + -0.000392135 * Amateur Built^1*FAR Description^1*Purpose of Flight^1 + -0.000013891 * Amateur Built^1*FAR Description^1*Air Carrier^1 + 0.000254356 * Amateur Built^1*FAR Description^1*Total Fatal Injuries^1 + -0.001707441 * Amateur Built^1*FAR Description^1*Total Serious Injuries^1 + -0.000209250 * Amateur Built^1*FAR Description^1*Total Minor Injuries^1 + 0.000030084 * Amateur Built^1*FAR

Description^1*Total Uninjured^1 + -0.003104246 * Amateur Built^1*FAR Description^1*Weather Condition^1 + 0.001552577 * Amateur Built^1*FAR Description^1*Broad Phase of Flight^1 + - 0.000001080 * Amateur Built^1*FAR Description^1*Report Publication Date^1 + 0.000000000 * Amateur Built^1*FAR Description^1*Unnamed: 30^1 + -0.000206470 * Amateur Built^1*Schedule^2 + - 0.004190151 * Amateur Built^1*Schedule^1*Purpose of Flight^1 + 0.001323888 * Amateur Built^1*Schedule^1*Air Carrier^1 + -0.002912455 * Amateur Built^1*Schedule^1*Total Fatal Injuries^1 + -0.002111016 * Amateur Built^1*Schedule^1*Total Serious Injuries^1 + -0.000672840 * Amateur Built^1*Schedule^1*Total Minor Injuries^1 + 0.001070743 * Amateur Built^1*Schedule^1*Total Uninjured^1 + 0.000087479 * Amateur Built^1*Schedule^1*Weather Condition^1 + 0.000216745 * Amateur Built^1*Schedule^1*Broad Phase of Flight^1 + 0.000088263 * Amateur Built^1*Schedule^1*Report Publication Date^1 + 0.000000000 * Amateur Built^1*Schedule^1*Unnamed: 30^1 + -0.000022700 * Amateur Built^1*Purpose of Flight^2 + - 0.000109004 * Amateur Built^1*Purpose of Flight^1*Air Carrier^1 + 0.000064883 * Amateur Built^1*Purpose of Flight^1*Total Fatal Injuries^1 + -0.001514199 * Amateur Built^1*Purpose of Flight^1*Total Serious Injuries^1 + 0.000690893 * Amateur Built^1*Purpose of Flight^1*Total Minor Injuries^1 + -0.000149244 * Amateur Built^1*Purpose of Flight^1*Total Uninjured^1 + -0.002884676 * Amateur Built^1*Purpose of Flight^1*Weather Condition^1 + 0.002817529 * Amateur Built^1*Purpose of Flight^1*Broad Phase of Flight^1 + -0.000005982 * Amateur Built^1*Purpose of Flight^1*Report Publication Date^1 + 0.000000000 * Amateur Built^1*Purpose of Flight^1*Unnamed: 30^1 + 0.000000993 * Amateur Built^1*Air Carrier^2 + -0.000089561 * Amateur Built^1*Air Carrier^1*Total Fatal Injuries^1 + 0.000271254 * Amateur Built^1*Air Carrier^1*Total Serious Injuries^1 + 0.000034376 * Amateur Built^1*Air Carrier^1*Total Minor Injuries^1 + 0.000005037 * Amateur Built^1*Air Carrier^1*Total Uninjured^1 + -0.000230823 * Amateur Built^1*Air Carrier^1*Weather Condition^1 + - 0.000012319 * Amateur Built^1*Air Carrier^1*Broad Phase of Flight^1 + 0.000001364 * Amateur Built^1*Air Carrier^1*Report Publication Date^1 + 0.000000000 * Amateur Built^1*Air Carrier^1*Unnamed: 30^1 + 0.000625566 * Amateur Built^1*Total Fatal Injuries^2 + 0.001118659 * Amateur Built^1*Total Fatal Injuries^1*Total Serious Injuries^1 + 0.001206276 * Amateur Built^1*Total Fatal Injuries^1*Total Minor Injuries^1 + -0.000034434 * Amateur Built^1*Total Fatal Injuries^1*Total Uninjured^1 + 0.001463622 * Amateur Built^1*Total Fatal Injuries^1*Weather Condition^1 + - 0.000273481 * Amateur Built^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + -0.000001196 * Amateur Built^1*Total Fatal Injuries^1*Report Publication Date^1 + 0.000000000 * Amateur Built^1*Total Fatal Injuries^1*Unnamed: 30^1 + -0.002914394 * Amateur Built^1*Total Serious Injuries^2 + 0.000228118 * Amateur Built^1*Total Serious Injuries^1*Total Minor Injuries^1 + - 0.001063881 * Amateur Built^1*Total Serious Injuries^1*Total Uninjured^1 + 0.000267956 * Amateur Built^1*Total Serious Injuries^1*Weather Condition^1 + 0.000152120 * Amateur Built^1*Total Serious Injuries^1*Broad Phase of Flight^1 + -0.000002281 * Amateur Built^1*Total Serious Injuries^1*Report Publication Date^1 + 0.000000000 * Amateur Built^1*Total Serious Injuries^1*Unnamed: 30^1 + - 0.000872666 * Amateur Built^1*Total Minor Injuries^2 + 0.000360530 * Amateur Built^1*Total Minor Injuries^1*Total Uninjured^1 + 0.000545286 * Amateur Built^1*Total Minor Injuries^1*Weather Condition^1 + 0.000279583 * Amateur Built^1*Total Minor Injuries^1*Broad Phase of Flight^1 + - 0.000003607 * Amateur Built^1*Total Minor Injuries^1*Report Publication Date^1 + 0.000000000 * Amateur Built^1*Total Minor Injuries^1*Unnamed: 30^1 + 0.000000913 * Amateur Built^1*Total Uninjured^2 + 0.000804303 * Amateur Built^1*Total Uninjured^1*Weather Condition^1 + 0.000080157 * Amateur Built^1*Total Uninjured^1*Broad Phase of Flight^1 + -0.000000020 * Amateur Built^1*Total

Uninjured^1*Report Publication Date^1 + 0.000000000 * Amateur Built^1*Total Uninjured^1*Unnamed:
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Built^1*Weather Condition^1*Broad Phase of Flight^1 + 0.000029496 * Amateur Built^1*Weather
Condition^1*Report Publication Date^1 + 0.000000000 * Amateur Built^1*Weather
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* Amateur Built^1*Broad Phase of Flight^1*Report Publication Date^1 + 0.000000000 * Amateur
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Engines^2*Engine Type^1 + -0.005231893 * Number of Engines^2*FAR Description^1 + 0.003636982 *
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0.000001333 * Number of Engines^2*Air Carrier^1 + -0.000091927 * Number of Engines^2*Total Fatal
Injuries^1 + 0.003000129 * Number of Engines^2*Total Serious Injuries^1 + -0.000291160 * Number of
Engines^2*Total Minor Injuries^1 + 0.000090994 * Number of Engines^2*Total Uninjured^1 +
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Engines^1*Engine Type^1*Total Serious Injuries^1 + -0.000086041 * Number of Engines^1*Engine
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Description^1*Purpose of Flight^1 + -0.000002901 * Number of Engines^1*FAR Description^1*Air
Carrier^1 + 0.000050089 * Number of Engines^1*FAR Description^1*Total Fatal Injuries^1 + -
0.000107175 * Number of Engines^1*FAR Description^1*Total Serious Injuries^1 + -0.000581788 *
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Engines^1*FAR Description^1*Total Uninjured^1 + -0.002456534 * Number of Engines^1*FAR
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+ 0.000000000 * Number of Engines^1*FAR Description^1*Unnamed: 30^1 + -0.000156415 * Number
of Engines^1*Schedule^2 + -0.001317870 * Number of Engines^1*Schedule^1*Purpose of Flight^1 +
0.000097008 * Number of Engines^1*Schedule^1*Air Carrier^1 + 0.000568584 * Number of
Engines^1*Schedule^1*Total Fatal Injuries^1 + -0.003628829 * Number of Engines^1*Schedule^1*Total
Serious Injuries^1 + -0.002746133 * Number of Engines^1*Schedule^1*Total Minor Injuries^1 + -
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Engines^1*Schedule^1*Weather Condition^1 + -0.001620632 * Number of
Engines^1*Schedule^1*Broad Phase of Flight^1 + -0.000018657 * Number of
Engines^1*Schedule^1*Report Publication Date^1 + 0.000000000 * Number of

Engines^1*Schedule^1*Unnamed: 30^1 + 0.000318227 * Number of Engines^1*Purpose of Flight^2 + 0.000007303 * Number of Engines^1*Purpose of Flight^1*Air Carrier^1 + 0.000115610 * Number of Engines^1*Purpose of Flight^1*Total Fatal Injuries^1 + 0.000378194 * Number of Engines^1*Purpose of Flight^1*Total Serious Injuries^1 + 0.000192503 * Number of Engines^1*Purpose of Flight^1*Total Minor Injuries^1 + 0.000012682 * Number of Engines^1*Purpose of Flight^1*Total Uninjured^1 + 0.001581767 * Number of Engines^1*Purpose of Flight^1*Weather Condition^1 + 0.000179336 * Number of Engines^1*Purpose of Flight^1*Broad Phase of Flight^1 + -0.000000209 * Number of Engines^1*Purpose of Flight^1*Report Publication Date^1 + 0.000000000 * Number of Engines^1*Purpose of Flight^1*Unnamed: 30^1 + -0.000000039 * Number of Engines^1*Air Carrier^2 + -0.000001327 * Number of Engines^1*Air Carrier^1*Total Fatal Injuries^1 + -0.000000278 * Number of Engines^1*Air Carrier^1*Total Serious Injuries^1 + -0.000002006 * Number of Engines^1*Air Carrier^1*Total Minor Injuries^1 + -0.000000055 * Number of Engines^1*Air Carrier^1*Total Uninjured^1 + -0.000019711 * Number of Engines^1*Air Carrier^1*Weather Condition^1 + 0.000005696 * Number of Engines^1*Air Carrier^1*Broad Phase of Flight^1 + 0.000000003 * Number of Engines^1*Air Carrier^1*Report Publication Date^1 + 0.000000000 * Number of Engines^1*Air Carrier^1*Unnamed: 30^1 + -0.000266061 * Number of Engines^1*Total Fatal Injuries^2 + 0.000225728 * Number of Engines^1*Total Fatal Injuries^1*Total Serious Injuries^1 + -0.000197357 * Number of Engines^1*Total Fatal Injuries^1*Total Minor Injuries^1 + -0.000001730 * Number of Engines^1*Total Fatal Injuries^1*Total Uninjured^1 + -0.000515000 * Number of Engines^1*Total Fatal Injuries^1*Weather Condition^1 + 0.000147776 * Number of Engines^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + -0.000000123 * Number of Engines^1*Total Fatal Injuries^1*Report Publication Date^1 + 0.000000000 * Number of Engines^1*Total Fatal Injuries^1*Unnamed: 30^1 + -0.000865311 * Number of Engines^1*Total Serious Injuries^2 + 0.000503619 * Number of Engines^1*Total Serious Injuries^1*Total Minor Injuries^1 + -0.000067291 * Number of Engines^1*Total Serious Injuries^1*Total Uninjured^1 + -0.004458019 * Number of Engines^1*Total Serious Injuries^1*Weather Condition^1 + 0.001661263 * Number of Engines^1*Total Serious Injuries^1*Broad Phase of Flight^1 + -0.000000355 * Number of Engines^1*Total Serious Injuries^1*Report Publication Date^1 + 0.000000000 * Number of Engines^1*Total Serious Injuries^1*Unnamed: 30^1 + 0.000026185 * Number of Engines^1*Total Minor Injuries^2 + 0.000033550 * Number of Engines^1*Total Minor Injuries^1*Total Uninjured^1 + -0.002090500 * Number of Engines^1*Total Minor Injuries^1*Weather Condition^1 + -0.000462327 * Number of Engines^1*Total Minor Injuries^1*Broad Phase of Flight^1 + -0.000000335 * Number of Engines^1*Total Minor Injuries^1*Report Publication Date^1 + 0.000000000 * Number of Engines^1*Total Minor Injuries^1*Unnamed: 30^1 + 0.000000140 * Number of Engines^1*Total Uninjured^2 + -0.000069249 * Number of Engines^1*Total Uninjured^1*Weather Condition^1 + 0.000021922 * Number of Engines^1*Total Uninjured^1*Broad Phase of Flight^1 + 0.000000074 * Number of Engines^1*Total Uninjured^1*Report Publication Date^1 + 0.000000000 * Number of Engines^1*Total Uninjured^1*Unnamed: 30^1 + 0.000453808 * Number of Engines^1*Weather Condition^2 + -0.002682458 * Number of Engines^1*Weather Condition^1*Broad Phase of Flight^1 + 0.000007038 * Number of Engines^1*Weather Condition^1*Report Publication Date^1 + 0.000000000 * Number of Engines^1*Weather Condition^1*Unnamed: 30^1 + -0.000496095 * Number of Engines^1*Broad Phase of Flight^2 + 0.000003610 * Number of Engines^1*Broad Phase of Flight^1*Report Publication Date^1 + 0.000000000 * Number of Engines^1*Broad Phase of Flight^1*Unnamed: 30^1 + 0.000000003 * Number of Engines^1*Report Publication Date^2 + 0.000000000 * Number of Engines^1*Report Publication Date^1*Unnamed: 30^1 + 0.000000000 *

Number of Engines^1*Unnamed: 30^2 + -0.004298151 * Engine Type^3 + -0.000637644 * Engine Type^2*FAR Description^1 + 0.004670204 * Engine Type^2*Schedule^1 + 0.001719531 * Engine Type^2*Purpose of Flight^1 + 0.000055400 * Engine Type^2*Air Carrier^1 + 0.000452181 * Engine Type^2*Total Fatal Injuries^1 + -0.003419367 * Engine Type^2*Total Serious Injuries^1 + 0.001029185 * Engine Type^2*Total Minor Injuries^1 + -0.000051637 * Engine Type^2*Total Uninjured^1 + 0.003996611 * Engine Type^2*Weather Condition^1 + -0.003801611 * Engine Type^2*Broad Phase of Flight^1 + -0.000002801 * Engine Type^2*Report Publication Date^1 + 0.000000000 * Engine Type^2*Unnamed: 30^1 + -0.000390134 * Engine Type^1*FAR Description^2 + -0.000212368 * Engine Type^1*FAR Description^1*Schedule^1 + 0.000207412 * Engine Type^1*FAR Description^1*Purpose of Flight^1 + -0.000006435 * Engine Type^1*FAR Description^1*Air Carrier^1 + 0.000016370 * Engine Type^1*FAR Description^1*Total Fatal Injuries^1 + 0.000398101 * Engine Type^1*FAR Description^1*Total Serious Injuries^1 + -0.000223012 * Engine Type^1*FAR Description^1*Total Minor Injuries^1 + 0.000016698 * Engine Type^1*FAR Description^1*Total Uninjured^1 + 0.002262830 * Engine Type^1*FAR Description^1*Weather Condition^1 + 0.000151152 * Engine Type^1*FAR Description^1*Broad Phase of Flight^1 + -0.000002705 * Engine Type^1*FAR Description^1*Report Publication Date^1 + 0.000000000 * Engine Type^1*FAR Description^1*Unnamed: 30^1 + 0.001007729 * Engine Type^1*Schedule^2 + 0.000709992 * Engine Type^1*Schedule^1*Purpose of Flight^1 + 0.000007442 * Engine Type^1*Schedule^1*Air Carrier^1 + -0.000474376 * Engine Type^1*Schedule^1*Total Fatal Injuries^1 + -0.000908224 * Engine Type^1*Schedule^1*Total Serious Injuries^1 + -0.000809065 * Engine Type^1*Schedule^1*Total Minor Injuries^1 + -0.000029508 * Engine Type^1*Schedule^1*Total Uninjured^1 + 0.001828936 * Engine Type^1*Schedule^1*Weather Condition^1 + 0.001990190 * Engine Type^1*Schedule^1*Broad Phase of Flight^1 + 0.000006225 * Engine Type^1*Schedule^1*Report Publication Date^1 + 0.000000000 * Engine Type^1*Schedule^1*Unnamed: 30^1 + -0.000123577 * Engine Type^1*Purpose of Flight^2 + 0.000000878 * Engine Type^1*Purpose of Flight^1*Air Carrier^1 + -0.000053273 * Engine Type^1*Purpose of Flight^1*Total Fatal Injuries^1 + 0.000338977 * Engine Type^1*Purpose of Flight^1*Total Serious Injuries^1 + 0.000061520 * Engine Type^1*Purpose of Flight^1*Total Minor Injuries^1 + -0.000003733 * Engine Type^1*Purpose of Flight^1*Total Uninjured^1 + 0.000423673 * Engine Type^1*Purpose of Flight^1*Weather Condition^1 + 0.000145037 * Engine Type^1*Purpose of Flight^1*Broad Phase of Flight^1 + 0.000000222 * Engine Type^1*Purpose of Flight^1*Report Publication Date^1 + 0.000000000 * Engine Type^1*Purpose of Flight^1*Unnamed: 30^1 + -0.000000039 * Engine Type^1*Air Carrier^2 + 0.000000118 * Engine Type^1*Air Carrier^1*Total Fatal Injuries^1 + -0.000003474 * Engine Type^1*Air Carrier^1*Total Serious Injuries^1 + -0.000001140 * Engine Type^1*Air Carrier^1*Total Minor Injuries^1 + 0.000000137 * Engine Type^1*Air Carrier^1*Total Uninjured^1 + -0.000019653 * Engine Type^1*Air Carrier^1*Weather Condition^1 + 0.000001176 * Engine Type^1*Air Carrier^1*Broad Phase of Flight^1 + 0.000000013 * Engine Type^1*Air Carrier^1*Report Publication Date^1 + 0.000000000 * Engine Type^1*Air Carrier^1*Unnamed: 30^1 + -0.000183824 * Engine Type^1*Total Fatal Injuries^2 + -0.000062809 * Engine Type^1*Total Fatal Injuries^1*Total Serious Injuries^1 + -0.000050404 * Engine Type^1*Total Fatal Injuries^1*Total Minor Injuries^1 + 0.000007983 * Engine Type^1*Total Fatal Injuries^1*Total Uninjured^1 + 0.000237344 * Engine Type^1*Total Fatal Injuries^1*Weather Condition^1 + -0.000012615 * Engine Type^1*Total Fatal Injuries^1*Broad Phase of Flight^1 + -0.000000312 * Engine Type^1*Total Fatal Injuries^1*Report Publication Date^1 + 0.000000000 * Engine Type^1*Total Fatal Injuries^1*Unnamed: 30^1 + 0.001230820 * Engine Type^1*Total Serious Injuries^2 + 0.000073630 * Engine Type^1*Total Serious

Injuries^1*Total Minor Injuries^1 + -0.000105802 * Engine Type^1*Total Serious Injuries^1*Total Uninjured^1 + 0.001170982 * Engine Type^1*Total Serious Injuries^1*Weather Condition^1 + 0.000056452 * Engine Type^1*Total Serious Injuries^1*Broad Phase of Flight^1 + 0.000001227 * Engine Type^1*Total Serious Injuries^1*Report Publication Date^1 + 0.000000000 * Engine Type^1*Total Serious Injuries^1*Unnamed: 30^1 + 0.000091817 * Engine Type^1*Total Minor Injuries^2 + 0.000008549 * Engine Type^1*Total Minor Injuries^1*Total Uninjured^1 + 0.000161006 * Engine Type^1*Total Minor Injuries^1*Weather Condition^1 + -0.000058919 * Engine Type^1*Total Minor Injuries^1*Broad Phase of Flight^1 + -0.000000431 * Engine Type^1*Total Minor Injuries^1*Report Publication Date^1 + 0.000000000 * Engine Type^1*Total Minor Injuries^1*Unnamed: 30^1 + -0.000000413 * Engine Type^1*Total Uninjured^2 + 0.000019917 * Engine Type^1*Total Uninjured^1*Weather Condition^1 + -0.000007594 * Engine Type^1*Total Uninjured^1*Broad Phase of Flight^1 + -0.000000027 * Engine Type^1*Total Uninjured^1*Report Publication Date^1 + 0.000000000 * Engine Type^1*Total Uninjured^1*Unnamed: 30^1 + 0.002405474 * Engine Type^1*Weather Condition^2 + -0.000863432 * Engine Type^1*Weather Condition^1*Broad Phase of Flight^1 + 0.000001431 * Engine Type^1*Weather Condition^1*Report Publication Date^1 + 0.000000000 * Engine Type^1*Weather Condition^1*Unnamed: 30^1 + 0.001228441 * Engine Type^1*Broad Phase of Flight^2 + -0.000000464 * Engine Type^1*Broad Phase of Flight^1*Report Publication Date^1 + 0.000000000 * Engine Type^1*Broad Phase of Flight^1*Unnamed: 30^1 + 0.000000019 * Engine Type^1*Report Publication Date^2 + 0.000000000 * Engine Type^1*Report Publication Date^1*Unnamed: 30^1 + 0.000000000 * Engine Type^1*Unnamed: 30^2 + -0.000023661 * FAR Description^3 + 0.000202155 * FAR Description^2*Schedule^1 + 0.000112277 * FAR Description^2*Purpose of Flight^1 + 0.000036438 * FAR Description^2*Air Carrier^1 + -0.000100448 * FAR Description^2*Total Fatal Injuries^1 + -0.000526183 * FAR Description^2*Total Serious Injuries^1 + -0.000023086 * FAR Description^2*Total Minor Injuries^1 + 0.000014719 * FAR Description^2*Total Uninjured^1 + 0.000254427 * FAR Description^2*Weather Condition^1 + 0.000200691 * FAR Description^2*Broad Phase of Flight^1 + -0.000001617 * FAR Description^2*Report Publication Date^1 + 0.000000000 * FAR Description^2*Unnamed: 30^1 + -0.007128873 * FAR Description^1*Schedule^2 + 0.000292540 * FAR Description^1*Schedule^1*Purpose of Flight^1 + 0.000029629 * FAR Description^1*Schedule^1*Air Carrier^1 + -0.000320465 * FAR Description^1*Schedule^1*Total Fatal Injuries^1 + -0.003994248 * FAR Description^1*Schedule^1*Total Serious Injuries^1 + 0.000056281 * FAR Description^1*Schedule^1*Total Minor Injuries^1 + -0.000000086 * FAR Description^1*Schedule^1*Total Uninjured^1 + -0.000558210 * FAR Description^1*Schedule^1*Weather Condition^1 + -0.000879607 * FAR Description^1*Schedule^1*Broad Phase of Flight^1 + 0.000005780 * FAR Description^1*Schedule^1*Report Publication Date^1 + 0.000000000 * FAR Description^1*Schedule^1*Unnamed: 30^1 + 0.000039523 * FAR Description^1*Purpose of Flight^2 + 0.000000580 * FAR Description^1*Purpose of Flight^1*Air Carrier^1 + 0.000005901 * FAR Description^1*Purpose of Flight^1*Total Fatal Injuries^1 + 0.000134944 * FAR Description^1*Purpose of Flight^1*Total Serious Injuries^1 + -0.000125401 * FAR Description^1*Purpose of Flight^1*Total Minor Injuries^1 + -0.000002821 * FAR Description^1*Purpose of Flight^1*Total Uninjured^1 + -0.000492910 * FAR Description^1*Purpose of Flight^1*Weather Condition^1 + 0.000130251 * FAR Description^1*Purpose of Flight^1*Broad Phase of Flight^1 + 0.000000016 * FAR Description^1*Purpose of Flight^1*Report Publication Date^1 + 0.000000000 * FAR Description^1*Purpose of Flight^1*Unnamed: 30^1 + -0.000000002 * FAR Description^1*Air Carrier^2 +

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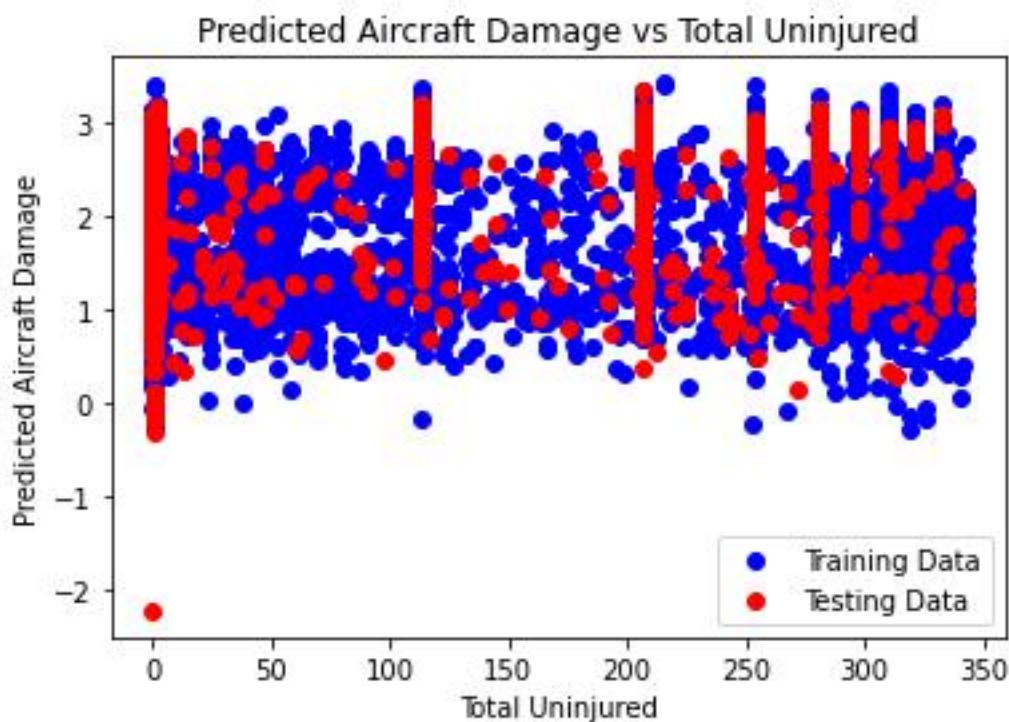
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Date^1 + 0.000000000 * Total Uninjured^1*Broad Phase of Flight^1*Unnamed: 30^1 + 0.000000000 *
Total Uninjured^1*Report Publication Date^2 + 0.000000000 * Total Uninjured^1*Report Publication
Date^1*Unnamed: 30^1 + 0.000000000 * Total Uninjured^1*Unnamed: 30^2 + 0.000979298 * Weather
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Condition^1*Broad Phase of Flight^1*Unnamed: 30^1 + -0.000000006 * Weather Condition^1*Report
Publication Date^2 + 0.000000000 * Weather Condition^1*Report Publication Date^1*Unnamed: 30^1 +
0.000000000 * Weather Condition^1*Unnamed: 30^2 + 0.000032785 * Broad Phase of Flight^3 +
0.000000166 * Broad Phase of Flight^2*Report Publication Date^1 + 0.000000000 * Broad Phase of
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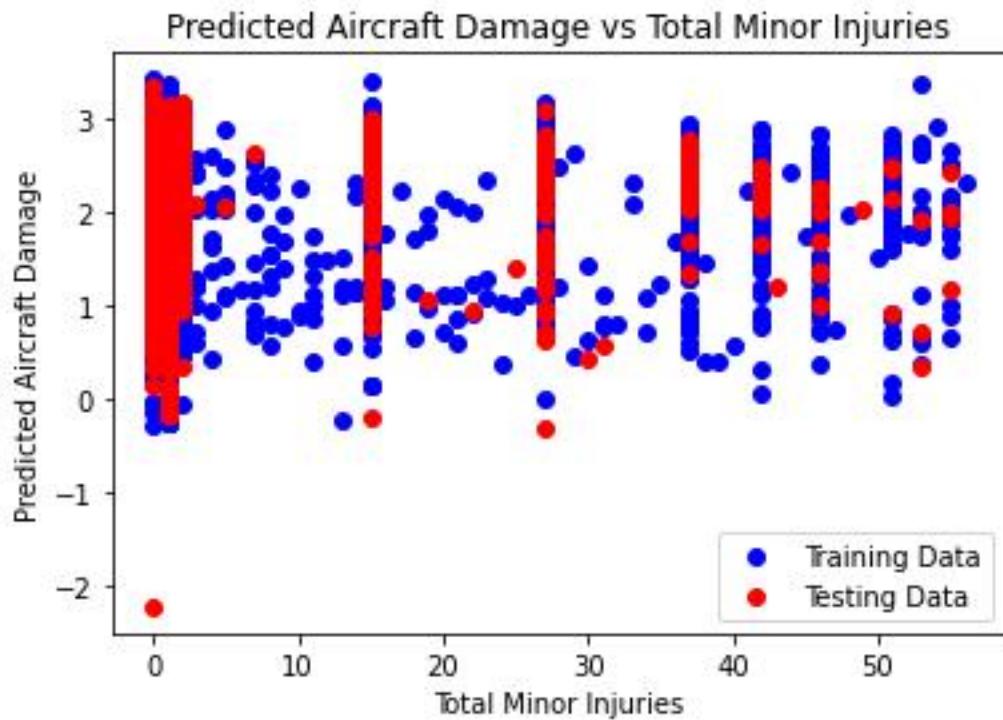
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The provided scatter plot illustrates the relationship between predicted aircraft damage and the total number of uninjured people on board. In the plot, the red line represents the average predicted aircraft damage, while the blue dots depict actual aircraft damage from testing data. The x-axis denotes the count of total uninjured individuals on board, and the y-axis signifies the predicted aircraft damage. Each

blue point represents a distinct aircraft accident, with its position on the y-axis indicating the model's predicted damage for that specific incident.

The dispersion of blue data points around the red line signifies variability in damage outcomes for accidents sharing the same count of uninjured individuals. This variability could stem from diverse factors such as aircraft type, prevailing weather conditions, and the specific circumstances surrounding each accident. Despite this scatter, no clear correlation emerges between the count of uninjured people on board and predicted aircraft damage. The absence of a discernible pattern in the distribution of data points around the red line suggests that the count of uninjured individuals may not serve as a reliable predictor of aircraft damage severity. This conclusion underscores the complexity involved in accurately predicting damage outcomes solely based on the count of uninjured passengers. Thus, further exploration and consideration of additional predictive variables may be necessary to enhance the model's predictive capabilities.



The provided scatter plot depicts the relationship between predicted aircraft damage and the count of total minor injuries resulting from aircraft accidents. The x-axis represents the total number of minor injuries sustained, while the y-axis signifies the severity of predicted damage to the aircraft. Each blue dot on the plot corresponds to a single aircraft accident from the testing dataset, indicating the predicted damage (y-axis) for the associated count of minor injuries (x-axis). Additionally, a red line denotes the predicted trend, illustrating how predicted aircraft damage is expected to vary with the number of minor injuries.

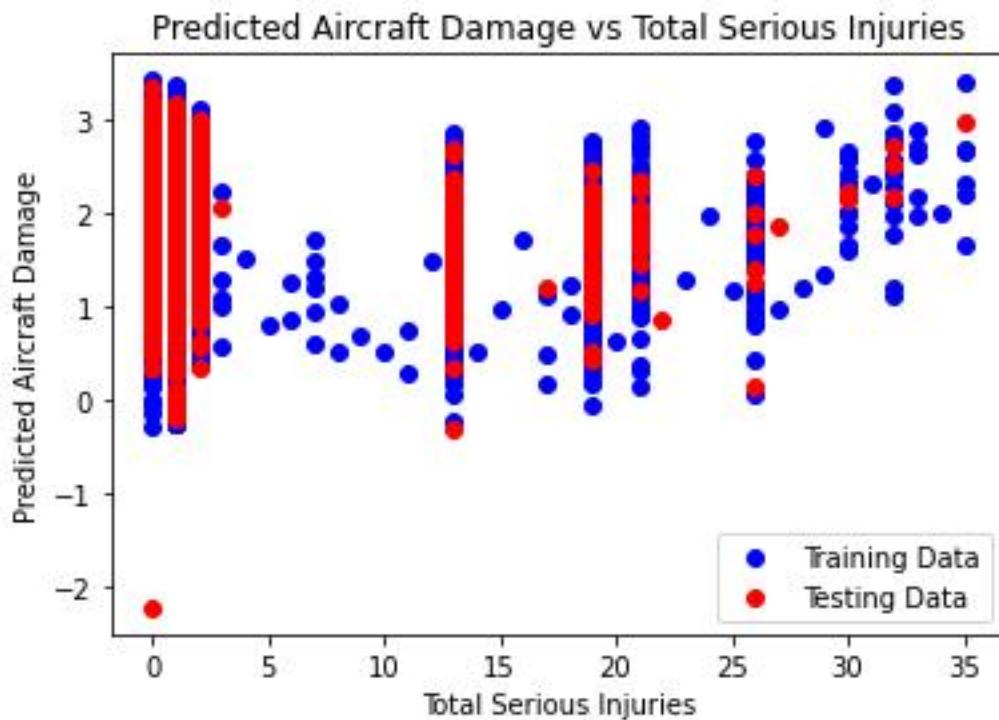
Interpretation:

The dispersion of blue dots around the red line suggests variability in predicted damage for accidents with similar counts of minor injuries, indicating that a direct one-to-one relationship between minor injuries and aircraft damage severity is not apparent. Various factors, such as aircraft type, weather conditions, and accident causation, may contribute to this variation.

Possible Observations:

- Generally, accidents with a higher count of minor injuries tend to exhibit greater predicted aircraft damage, as implied by the upward trend of the red line.
- Nonetheless, exceptions exist, where accidents with a lower count of minor injuries show unexpectedly high predicted damage (blue dots above the red line), and vice versa.

In summary, the plot indicates a positive correlation between the count of minor injuries and predicted aircraft damage, albeit with notable variability. This suggests that while minor injuries may serve as a predictor of damage severity to some extent, other influential factors contribute to the observed variation in predicted damage outcomes.

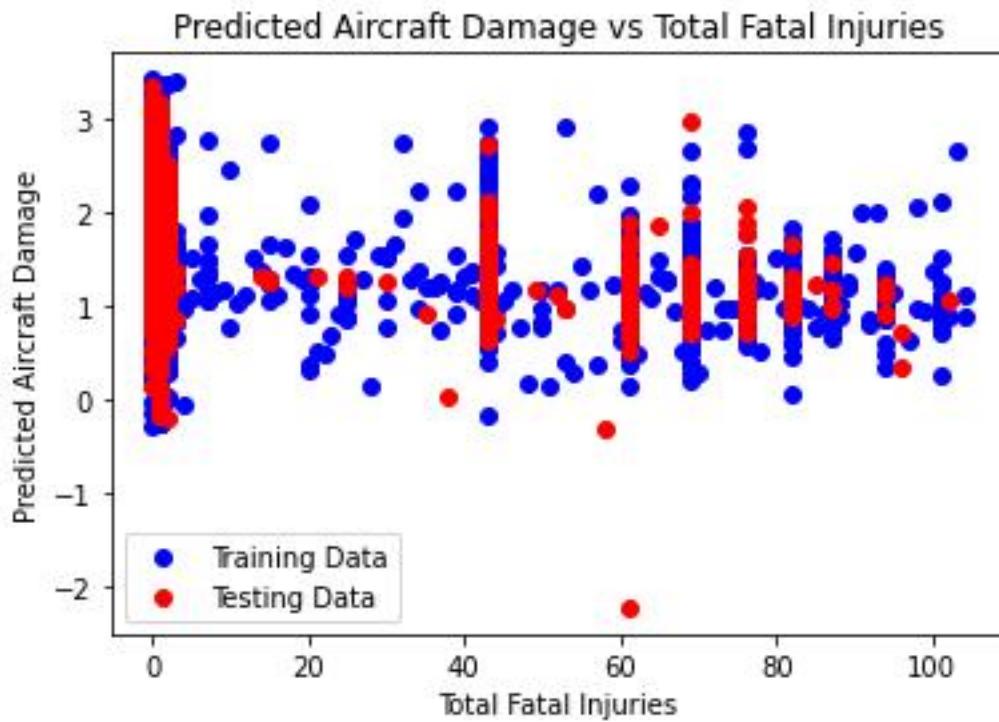


The provided scatter plot illustrates the relationship between predicted aircraft damage and the count of total serious injuries resulting from aircraft accidents. The x-axis denotes the total number of serious injuries, and the y-axis signifies the predicted aircraft damage. Each blue point corresponds to a single aircraft accident, with its position on the y-axis indicating the model's predicted damage for that specific incident.

The dispersion of blue data points around the red line indicates variability in damage outcomes for accidents with similar counts of serious injuries, suggesting that a direct one-to-one relationship between serious injuries and aircraft damage severity is not absolute. This variability may arise from diverse factors such as aircraft type, weather conditions, and the specific circumstances surrounding each accident.

Observationally, while there is a discernible positive correlation between the count of total serious injuries and predicted aircraft damage, as evidenced by the general trend of increasing damage with higher counts of serious injuries, the scatter of data points around the red line suggests that this correlation is not perfect. Indeed, there exists variability in predicted damage outcomes for accidents with equivalent counts of serious injuries, indicating that factors beyond injury severity alone influence the resulting damage.

In summary, the plot implies a positive correlation between the count of total serious injuries and predicted aircraft damage, albeit with notable variability. This underscores the complexity of factors influencing damage severity in aircraft accidents and suggests that while serious injuries may serve as a predictor of damage severity, other influential variables contribute to the observed variation in predicted damage outcomes.



The provided scatter plot depicts the relationship between predicted aircraft damage and the count of total fatal injuries resulting from aircraft accidents. The x-axis represents the total number of fatalities, while the y-axis signifies the predicted severity of aircraft damage.

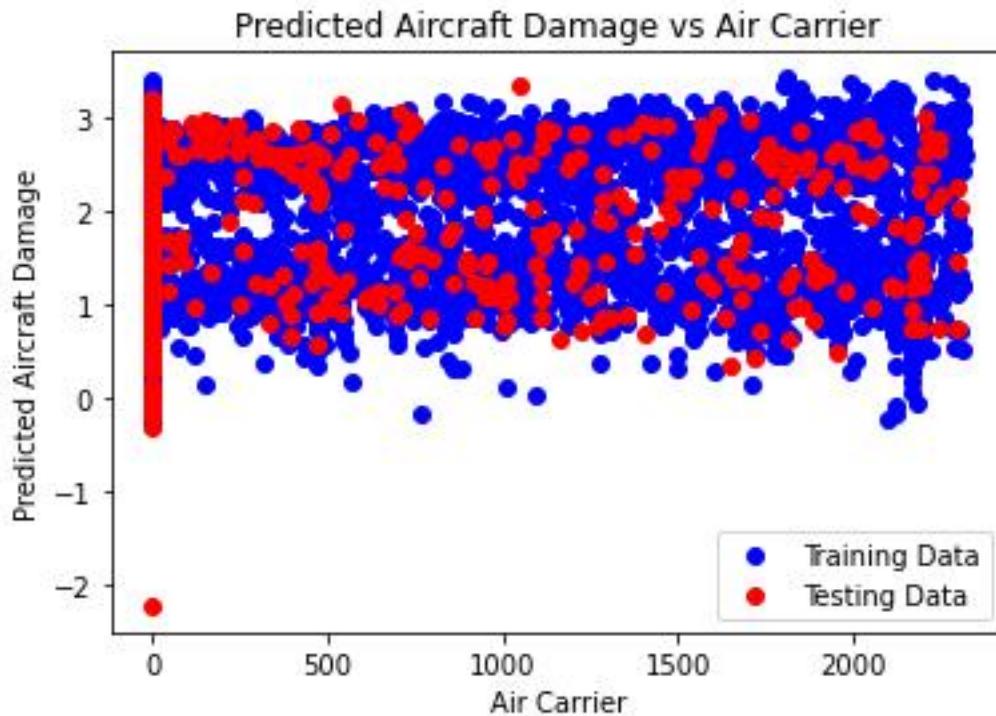
Interpretation:

The dispersion of blue dots around the red line indicates variability in predicted damage for accidents with similar counts of fatal injuries, suggesting that a direct one-to-one relationship between fatal injuries and aircraft damage severity is not absolute. This variability may arise from diverse factors such as aircraft type, weather conditions, and the specific circumstances surrounding each accident.

Possible Observations:

- Generally, accidents with a higher count of fatal injuries tend to exhibit greater predicted aircraft damage, as implied by the upward trend of the red line.
- Nonetheless, exceptions exist, where accidents with a lower count of fatal injuries show unexpectedly high predicted damage (blue dots above the red line), and vice versa.

In summary, the plot suggests a positive correlation between the count of total fatal injuries and predicted aircraft damage, albeit with notable variability. This implies that while fatal injuries may serve as a predictor of damage severity to some extent, other influential factors contribute to the observed variation in predicted damage outcomes.



The provided scatter plot illustrates the relationship between predicted aircraft damage and Air Carrier, presumably representing different airlines or carriers operating the aircraft involved in accidents. The x-axis represents Air Carrier, while the y-axis signifies the predicted severity of aircraft damage. Additionally, a red line denotes the predicted trend, illustrating how predicted aircraft damage varies across different Air Carriers.

Interpretation:

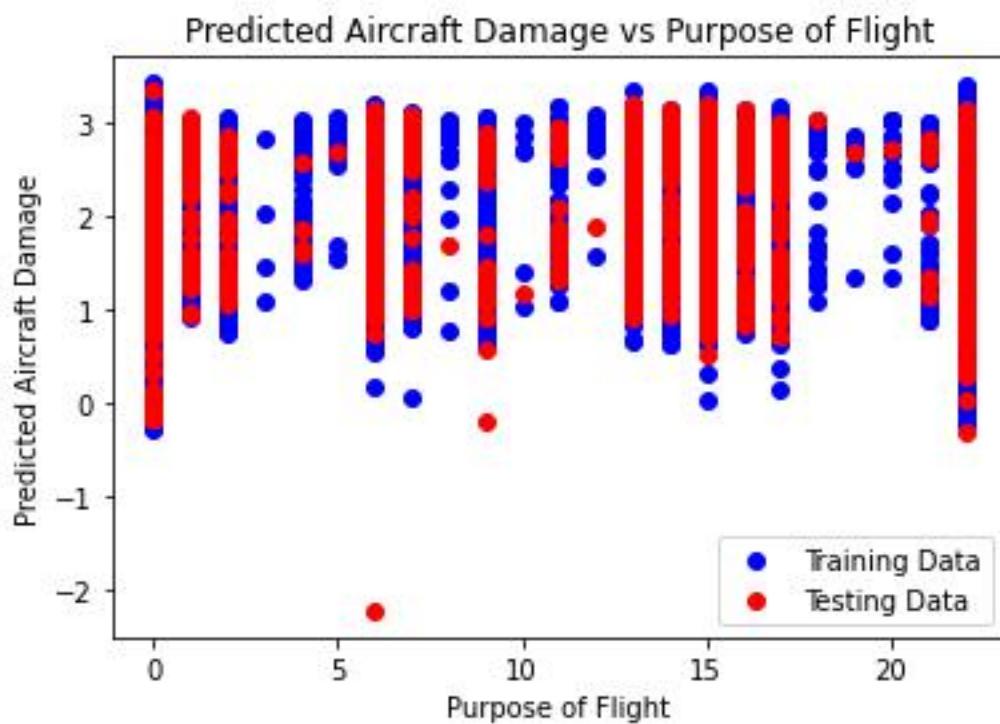
The dispersion of blue dots around the red line indicates significant variability in predicted damage for accidents involving different Air Carriers. This variability suggests that there is no clear, direct relationship between the specific airline and the severity of predicted aircraft damage. Various factors such as aircraft type, weather conditions, accident causation, and even the specific aircraft within an airline's fleet may influence the observed variation in predicted damage outcomes.

Possible Observations:

- It is challenging to discern from the plot whether any particular Air Carrier consistently exhibits higher or lower predicted aircraft damage, as there is considerable scatter of data points.

- Some airlines may appear clustered together on the x-axis, potentially indicating similarities in the types of aircraft they operate.

In summary, the plot suggests that Air Carrier alone does not serve as a strong predictor of predicted aircraft damage severity. The observed variability in predicted damage outcomes across different airlines implies that other factors not represented in this plot may play a more substantial role in determining the severity of aircraft damage in accidents.



The provided scatter plot illustrates the relationship between predicted aircraft damage and the purpose of flight, categorizing flights based on their intended usage. The x-axis denotes the purpose of the flight, while the y-axis represents the predicted severity of aircraft damage.

Interpretation:

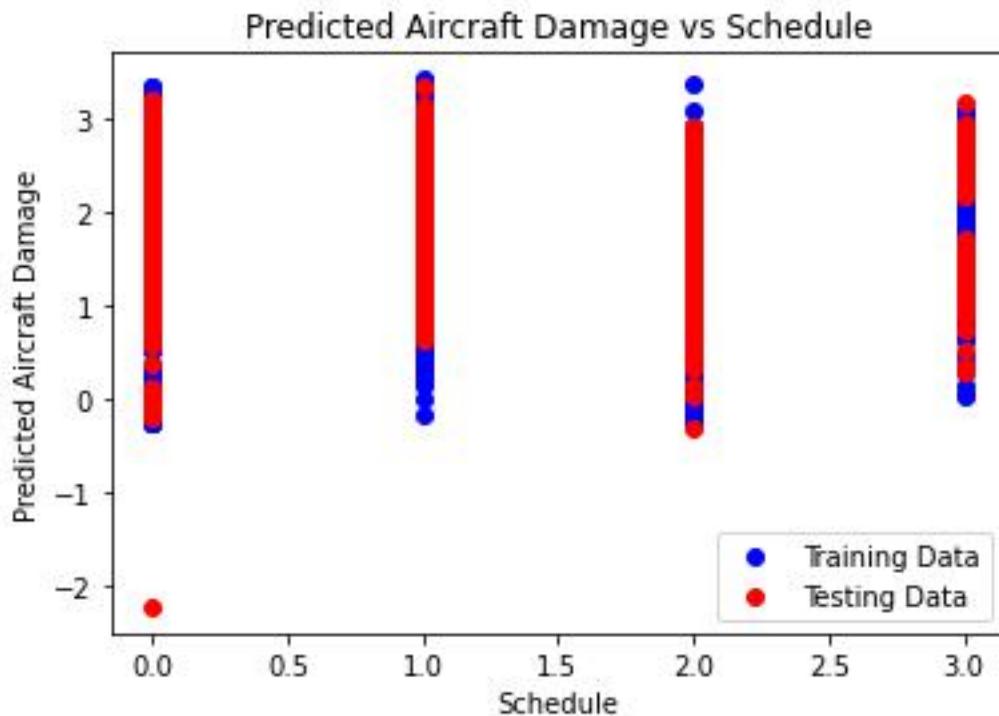
The dispersion of blue dots around the red line signifies variability in predicted damage outcomes for flights with similar purposes. This variation suggests that a direct one-to-one relationship between flight

purpose and predicted aircraft damage severity is not evident. Numerous factors, such as aircraft type, cargo weight, weather conditions, and accident causation, may contribute to the observed variation in predicted damage outcomes across different flight purposes.

Observations:

- The scatter of data points around the red line suggests that no single purpose of flight consistently leads to higher or lower predicted aircraft damage. Flights with similar purposes may exhibit varying levels of predicted damage, indicative of the influence of other factors.
- For instance, while cargo flights may be expected to incur more damage due to potentially heavier payloads, there are instances where passenger flights may result in significant damage, perhaps due to unique circumstances surrounding the flight.

In summary, the plot suggests that the purpose of flight alone may not serve as a reliable predictor of predicted aircraft damage. The observed variability in predicted damage outcomes across different flight purposes underscores the multifaceted nature of factors influencing aircraft damage severity and suggests the presence of additional influential variables not captured by flight purpose alone.



The provided scatter plot depicts the relationship between predicted aircraft damage and schedule, although there appears to be a labeling discrepancy on the axes, as indicated by the legend. Presuming

the x-axis represents the scheduled arrival or departure time of aircraft, while the y-axis signifies the predicted severity of aircraft damage. Each blue point on the plot corresponds to a single flight from the dataset, illustrating the predicted damage (y-axis) associated with a specific scheduled arrival or departure time (x-axis). Additionally, a red line portrays the average predicted aircraft damage across different scheduled times.

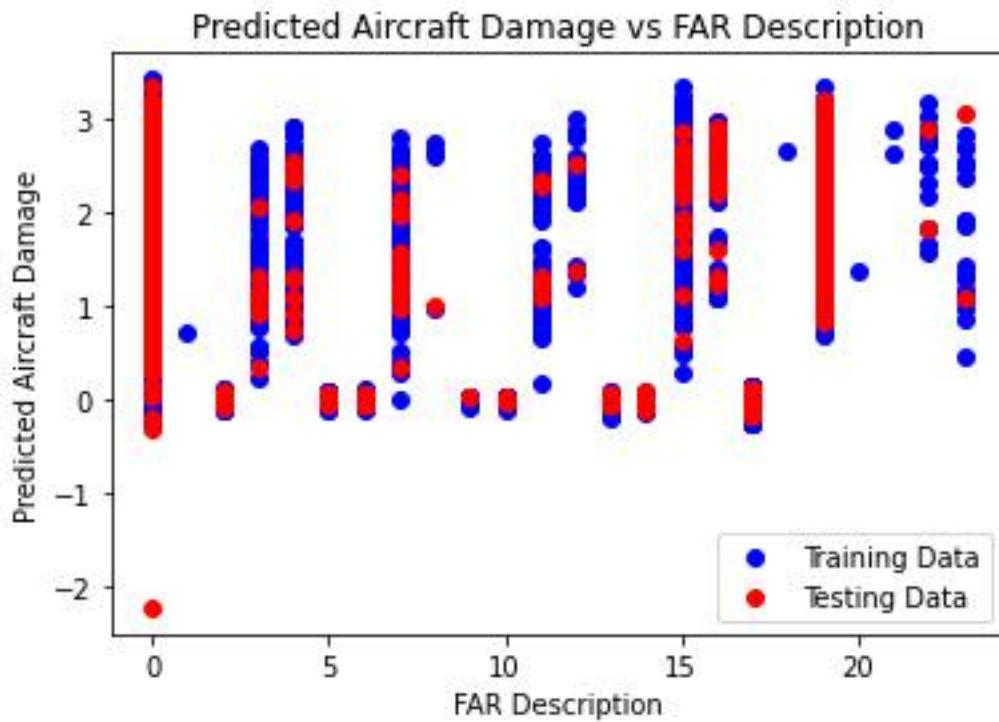
Interpretation:

The dispersion of blue dots around the red line indicates variability in predicted damage outcomes for flights scheduled at similar times. This variability suggests that a direct one-to-one relationship between scheduled arrival or departure time and predicted aircraft damage severity is not readily discernible. Various factors such as weather conditions, visibility issues, and pilot fatigue may contribute to the observed variation in predicted damage outcomes across different schedule times.

Observations:

- The scatter of data points around the red line suggests that scheduled arrival or departure time alone may not serve as a reliable predictor of predicted aircraft damage. Flights scheduled at similar times may exhibit varying levels of predicted damage, indicating the influence of other factors.
- For instance, while flights departing at night may be expected to incur more damage due to potential weather conditions or visibility issues, there may be instances where flights departing during the day experience significant damage due to other factors.

In summary, the plot suggests that the scheduled arrival or departure time alone may not sufficiently predict aircraft damage. The observed variability in predicted damage outcomes across different schedule times underscores the complex interplay of factors influencing aircraft damage severity, suggesting the presence of additional influential variables not captured solely by schedule time.



The provided scatter plot illustrates the relationship between predicted aircraft damage and FAR Description, presumably denoting descriptors based on the Federal Aviation Regulations (FAR). While the exact encoding of FAR descriptions is unclear from the image, the x-axis represents these regulatory descriptors, while the y-axis signifies the predicted severity of aircraft damage. Additionally, a red line portrays the predicted trend, illustrating how predicted aircraft damage varies across different FAR descriptions.

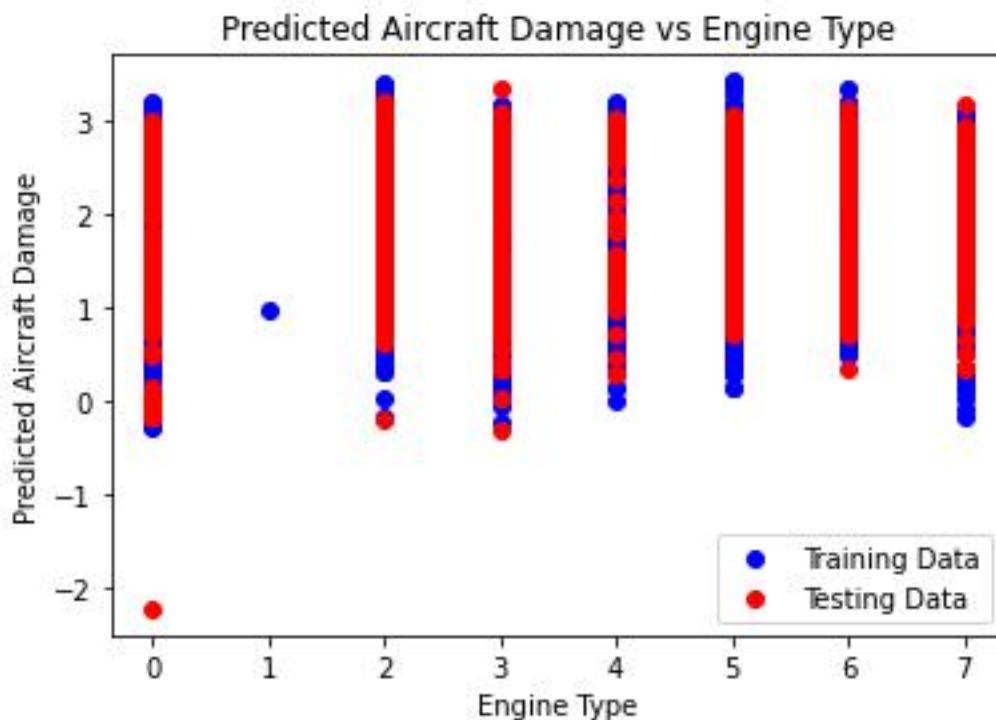
Interpretation:

The dispersion of blue dots around the red line suggests variability in predicted damage outcomes for accidents sharing similar FAR descriptions. This variability implies that a direct one-to-one relationship between FAR description and predicted aircraft damage severity may not be evident. Numerous factors, such as the specific regulation referenced in the FAR description, aircraft type, weather conditions, and accident causation, may contribute to the observed variation in predicted damage outcomes across different FAR descriptions.

Observations:

- The scatter of data points around the red line indicates that no single FAR description consistently leads to higher or lower predicted aircraft damage. Accidents associated with similar FAR descriptions may exhibit varying levels of predicted damage, indicative of the influence of other contributing factors.
- Further analysis of specific FAR descriptions along the x-axis might reveal patterns or common themes (e.g., regulations pertaining to icing conditions) that could shed light on potential correlations with predicted damage outcomes.

In summary, the plot suggests that FAR Description alone may not serve as a robust predictor of predicted aircraft damage. The observed variability in predicted damage outcomes across different FAR descriptions underscores the multifaceted nature of factors influencing aircraft damage severity, suggesting the presence of additional influential variables not captured solely by FAR Description.



The provided scatter plot illustrates the relationship between predicted aircraft damage and engine type. The x-axis represents different engine types, while the y-axis signifies the predicted severity of aircraft damage. Additionally, a red line portrays the average predicted aircraft damage across different engine types.

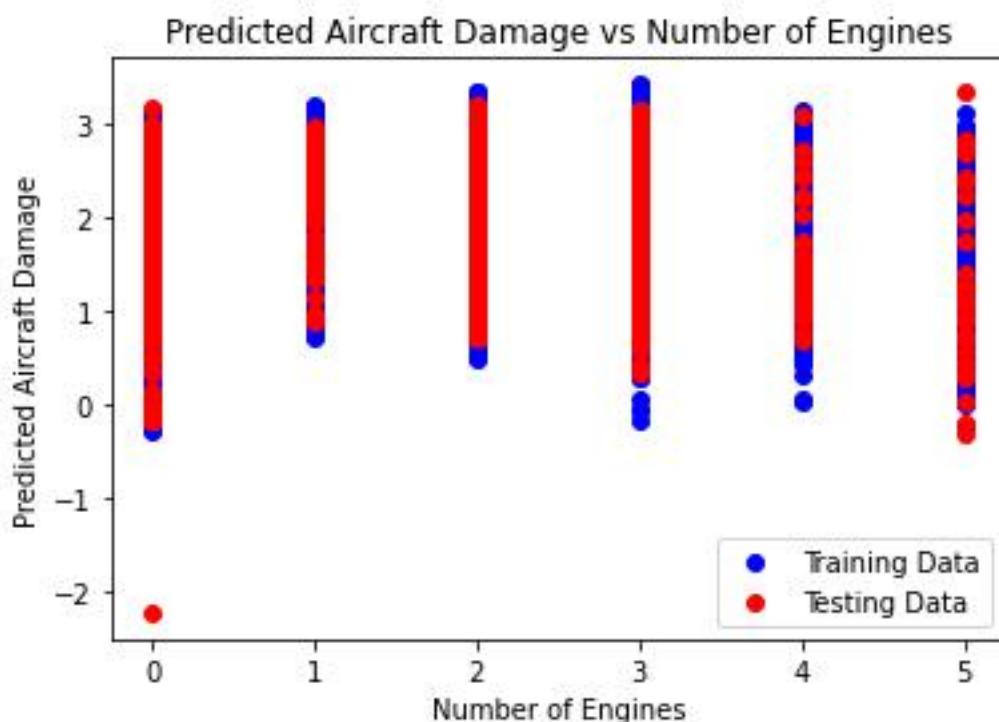
Interpretation:

The dispersion of blue dots around the red line suggests variability in predicted damage outcomes for accidents involving similar engine types. This variability indicates that a direct one-to-one relationship between engine type and predicted aircraft damage severity may not be unequivocal. Numerous factors, such as the specific engine model, engine age, weather conditions, and accident causation, may contribute to the observed variation in predicted damage outcomes across different engine types.

Observations:

- The scatter of data points around the red line suggests that while there may be a correlation between engine type and predicted aircraft damage, it is not a perfect correlation. Accidents involving the same engine type may exhibit varying levels of predicted damage, suggesting the influence of other contributing factors.
- Variability in predicted damage outcomes could stem from differences in engine performance, maintenance history, or operational factors specific to each accident.

In summary, the plot implies a potential correlation between engine type and predicted aircraft damage severity, albeit with notable variability. This underscores the multifaceted nature of factors influencing aircraft damage severity and suggests the presence of additional influential variables not captured solely by engine type.



The provided scatter plot depicts the relationship between predicted aircraft damage and the number of engines installed on the aircraft. The x-axis represents the count of jet engines, while the y-axis signifies the predicted severity of aircraft damage. Each blue dot on the plot corresponds to a single aircraft accident from the testing dataset, illustrating the predicted damage (y-axis) associated with a specific number of engines (x-axis). Additionally, a red line portrays the predicted trend, indicating how predicted aircraft damage varies across different engine counts.

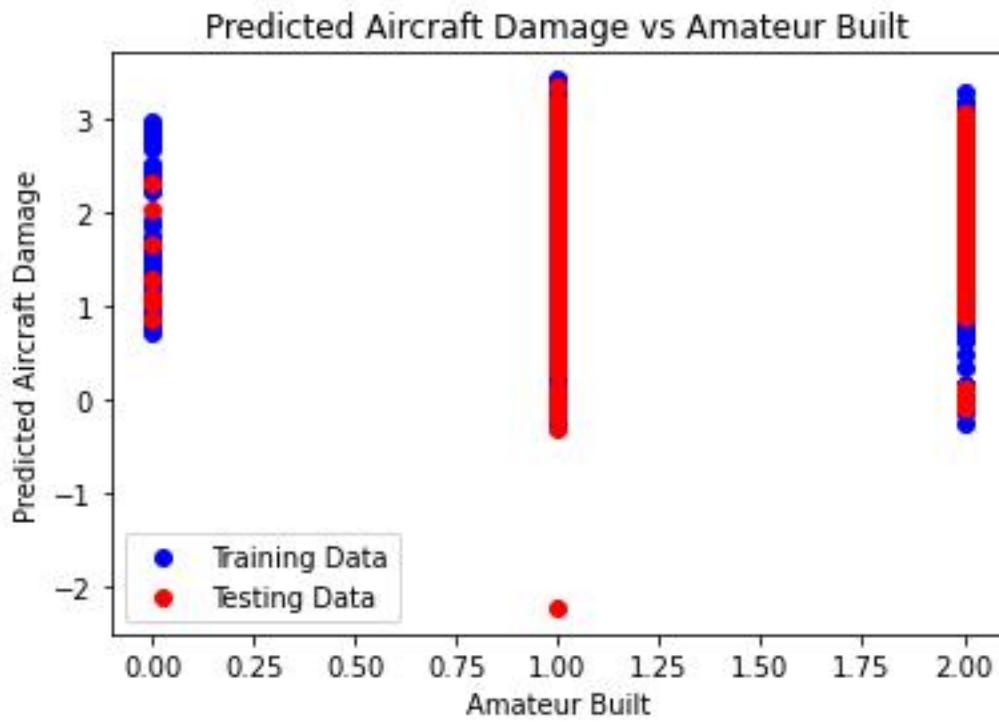
Interpretation:

The dispersion of blue dots around the red line suggests variability in predicted damage outcomes for aircraft with differing numbers of engines. This variability implies that a direct one-to-one relationship between the number of engines and predicted aircraft damage severity may not be absolute. Various factors, such as the specific aircraft model, weather conditions, and accident causation, may contribute to the observed variation in predicted damage outcomes across different engine counts.

Observations:

- While the red line hints at a potential trend of increasing predicted aircraft damage with a higher number of engines, this relationship is not universally consistent. Some twin-engine aircraft accidents (with two engines) exhibit high predicted damage levels, while certain four-engine aircraft accidents (with four engines) show lower predicted damage levels, as indicated by outliers from the trend line.
- The observed variability in predicted damage outcomes underscores the influence of other contributing factors beyond the number of engines, such as aircraft size, weight, and operational conditions.

In summary, the plot suggests a potential correlation between the number of engines and predicted aircraft damage severity, albeit with notable variability attributable to additional influential factors. While larger aircraft with more engines may tend to experience higher predicted damage, the presence of exceptions underscores the complexity of factors influencing aircraft damage severity.



The provided scatter plot illustrates the relationship between predicted aircraft damage and the maximum occupancy of the aircraft. The x-axis denotes the maximum number of individuals the aircraft is designed to accommodate, encompassing both passengers and crew, while the y-axis represents the predicted severity of aircraft damage. Additionally, a red line portrays the predicted trend, delineating how predicted aircraft damage varies concerning the maximum occupancy of the aircraft.

Interpretation:

The dispersion of blue dots around the red line suggests variability in predicted damage outcomes for aircraft with different maximum occupancy levels. This variability implies that a direct one-to-one relationship between maximum occupancy and predicted aircraft damage severity may not be absolute. Various factors, such as aircraft type, construction materials, weather conditions, and accident causation, may contribute to the observed variation in predicted damage outcomes across different maximum occupancy levels.

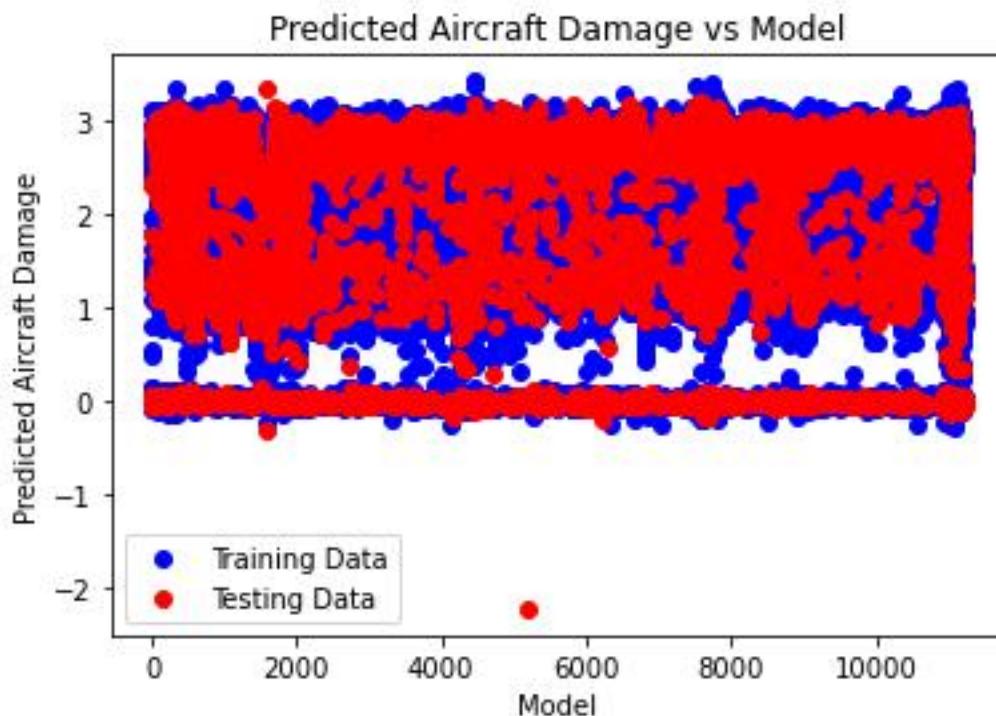
Observations:

- While the red line hints at a potential trend of increasing predicted aircraft damage with a higher maximum occupancy, this relationship is not universally consistent. Certain accidents involving smaller aircraft with lower maximum occupancy levels exhibit high predicted damage, while some larger aircraft

with higher maximum occupancy levels show lower predicted damage levels, as evidenced by outliers from the trend line.

- The observed variability in predicted damage outcomes underscores the influence of additional contributing factors beyond maximum occupancy, such as aircraft size, weight, and operational conditions.

In summary, the plot suggests a potential correlation between the maximum occupancy of an aircraft and predicted aircraft damage severity, albeit with notable variability due to other influential factors. While larger aircraft designed to carry more individuals may tend to experience higher predicted damage, the presence of exceptions underscores the complexity of factors influencing aircraft damage severity.



The provided scatter plot illustrates the relationship between predicted aircraft damage and the type of aircraft involved in an accident. The x-axis represents different aircraft types, likely denoting specific models or categories, while the y-axis signifies the predicted severity of aircraft damage. Additionally, a red line depicts the predicted trend, delineating how predicted aircraft damage varies concerning the type of aircraft involved.

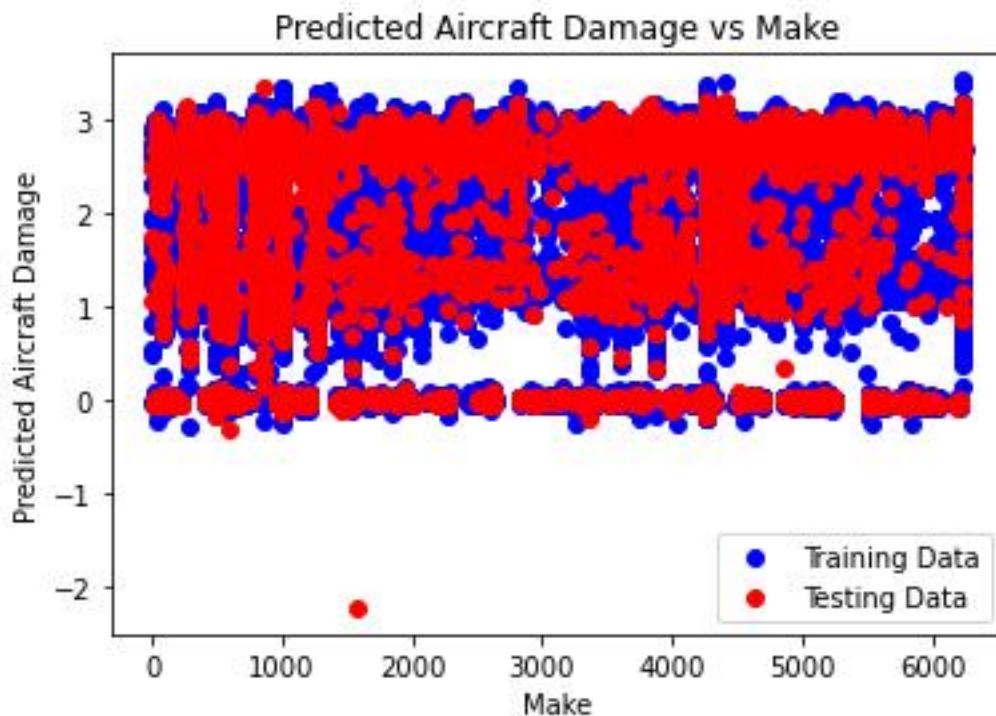
Interpretation:

The dispersion of blue dots around the red line indicates variability in predicted damage outcomes across different aircraft types. This variability suggests that a direct one-to-one correspondence between aircraft type and predicted aircraft damage severity may not be absolute. Various factors, such as aircraft size, weight, construction materials, operational conditions, and accident circumstances, likely contribute to the observed variation in predicted damage outcomes.

Possible Observations:

- The presence of a trend line suggests a potential association between certain aircraft types and predicted damage severity. However, the specific nature and strength of this association require further investigation and clarification of how aircraft types are encoded.
- It is plausible that certain aircraft types may exhibit similar predicted damage outcomes due to shared characteristics such as size, design, or construction materials, resulting in clustering along the x-axis.

In summary, while the plot suggests a relationship between the type of aircraft involved and predicted aircraft damage severity, it also highlights the complexity of factors influencing damage outcomes. Further analysis and consideration of additional variables are necessary to comprehensively understand the interplay between aircraft type and predicted damage severity.



The provided scatter plot illustrates the relationship between predicted aircraft damage and the make of the aircraft involved in an accident. The x-axis denotes the manufacturers of the aircraft, while the y-axis signifies the predicted severity of aircraft damage. Additionally, a red line depicts the predicted trend, delineating how predicted aircraft damage varies concerning the make of the aircraft involved.

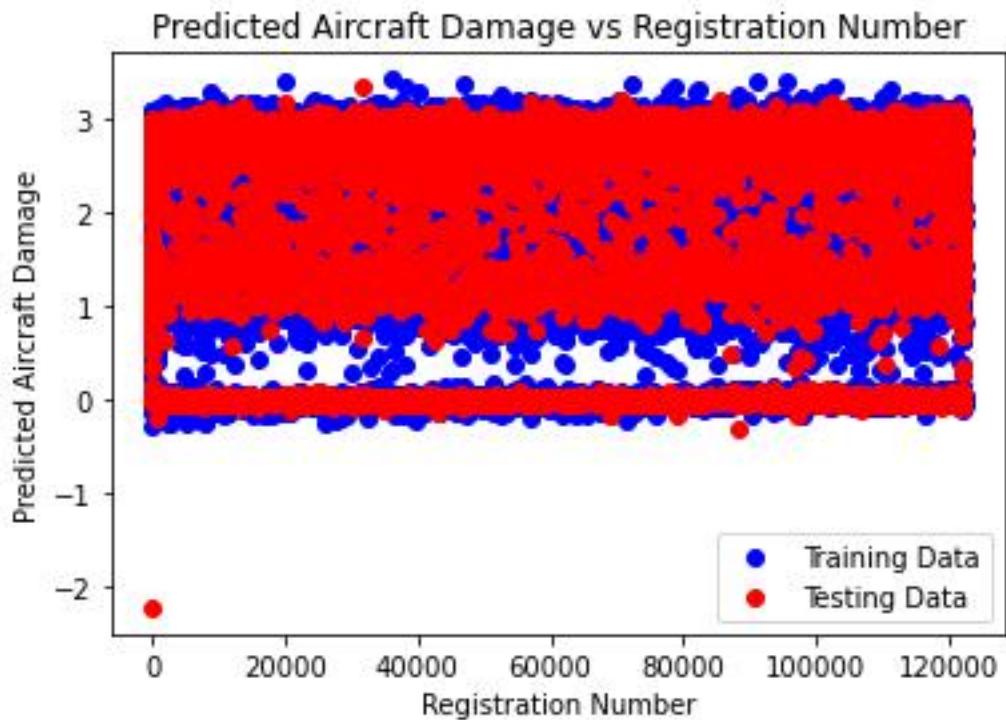
Interpretation:

The dispersion of blue dots around the red line suggests variability in predicted damage outcomes across aircraft makes. This variability indicates that a direct one-to-one correspondence between the aircraft make and predicted damage severity may not be absolute. Various factors, such as the specific models produced by each manufacturer, the materials used in aircraft construction, operational conditions, and accident circumstances, likely contribute to the observed variation in predicted damage outcomes.

Possible Observations:

- The presence of a trend line suggests a potential association between certain aircraft manufacturers and predicted damage severity. However, the specific nature and strength of this association require further investigation and clarification of how aircraft makes are encoded.
- It is plausible that certain aircraft makes may exhibit similar predicted damage outcomes due to shared characteristics such as design philosophy, manufacturing processes, and safety features.

In summary, while the plot suggests a relationship between the make of the aircraft involved and predicted aircraft damage severity, it also underscores the complex interplay of factors influencing damage outcomes. Further analysis and consideration of additional variables are necessary to comprehensively understand the relationship between aircraft make and predicted damage severity.



The provided scatter plot illustrates the relationship between predicted aircraft damage and the inlet type of the aircraft engine. The x-axis represents the engine inlet type, distinguishing between turbofan and turboprop designs. On the other hand, the y-axis denotes the predicted severity of aircraft damage resulting from accidents. Additionally, a red line depicts the predicted trend, delineating how predicted aircraft damage varies concerning the engine inlet type.

Interpretation:

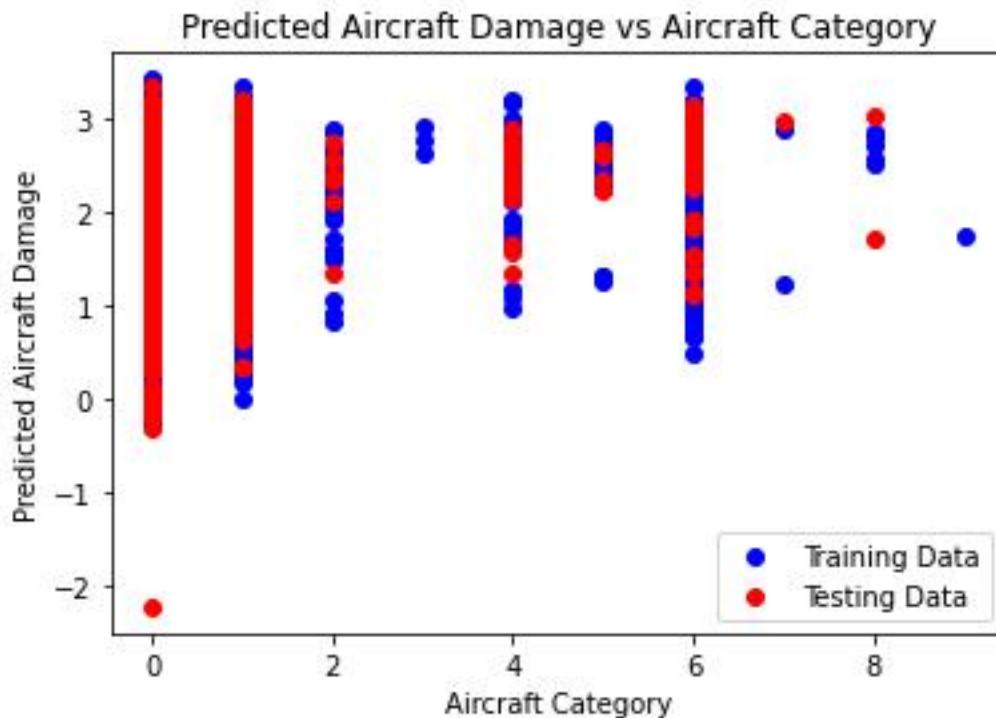
The dispersion of blue dots around the red line indicates variability in predicted damage outcomes across different engine inlet types. This variability suggests that a direct one-to-one correspondence between the engine inlet type and predicted damage severity may not be absolute. Various factors, such as aircraft model specifics, construction materials, operational conditions, and accident circumstances, likely contribute to the observed variation in predicted damage outcomes.

Possible Observations:

- While the red line may suggest a potential trend, the plot does not distinctly reveal a clear pattern. It remains challenging to discern whether one engine inlet type is consistently associated with higher predicted damage severity.

- Notably, some aircraft accidents involving turbofan engine inlets exhibit higher predicted damage outcomes (blue dots above the red line), while others with turboprop engine inlets deviate from the predicted trend, indicating the presence of exceptions.

In summary, while the plot hints at a potential relationship between the engine inlet type and predicted aircraft damage severity, it underscores the complexity of factors influencing damage outcomes. Further analysis, considering additional variables and contextual information, is necessary to comprehensively understand the relationship between engine inlet type and predicted damage severity.



The provided scatter plot depicts the relationship between predicted aircraft damage and runway length. The x-axis represents the length of the runway involved in the accident, while the y-axis denotes the predicted severity of aircraft damage resulting from the incident. Additionally, a red line is superimposed on the plot to delineate the predicted trend, indicating how aircraft damage severity is anticipated to vary concerning runway length.

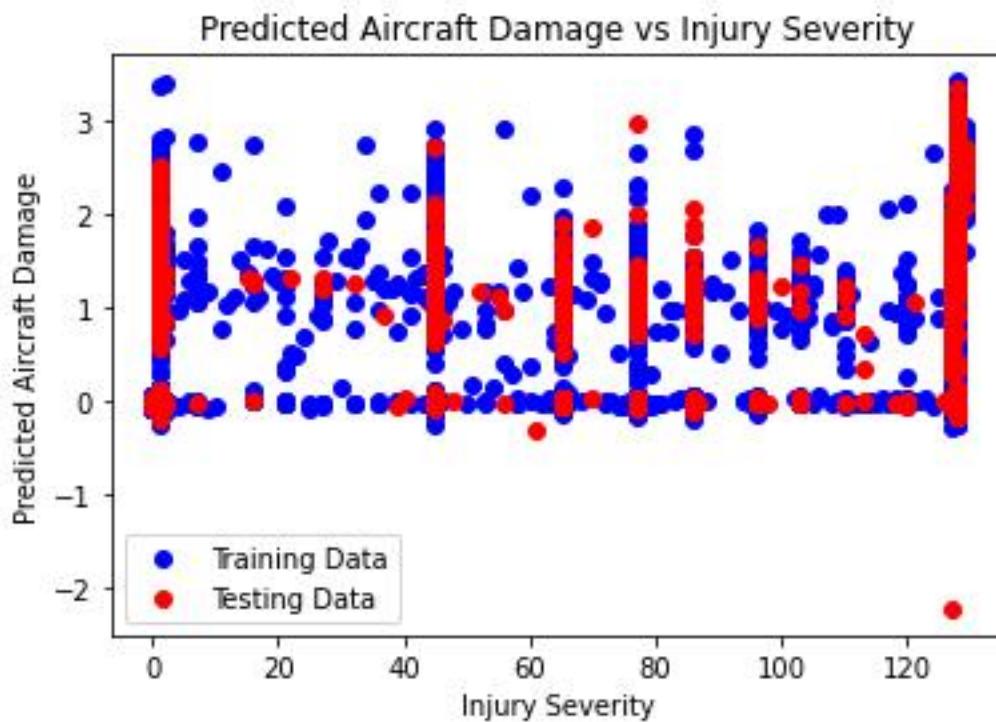
Interpretation:

The dispersion of blue dots around the red line suggests variability in predicted damage outcomes across different runway lengths. This variability implies that a direct one-to-one relationship between runway length and predicted damage severity may not be absolute. Various factors, including the specific circumstances of the accident, aircraft characteristics, weather conditions, and pilot actions, likely contribute to the observed variation in predicted damage outcomes.

Possible Observations:

- The red line may suggest a potential trend, indicating the possibility of lower predicted damage for accidents occurring on longer runways. This trend is plausible because longer runways afford more space for aircraft to execute takeoff and landing maneuvers safely.
- Nonetheless, notable exceptions exist, as evidenced by some accidents occurring on long runways exhibiting higher predicted damage outcomes (blue dots above the red line), and conversely, some accidents on short runways deviating from the predicted trend.

In summary, while the plot hints at a potential correlation between runway length and predicted aircraft damage severity, it underscores the influence of multifaceted factors on damage outcomes. A comprehensive understanding of the relationship between runway length and predicted damage severity necessitates further analysis, incorporating additional variables and contextual insights.



The value plot provides insights into the relationship between predicted aircraft damage and injury severity. It presents the following key observations:

1. Axes Representation:

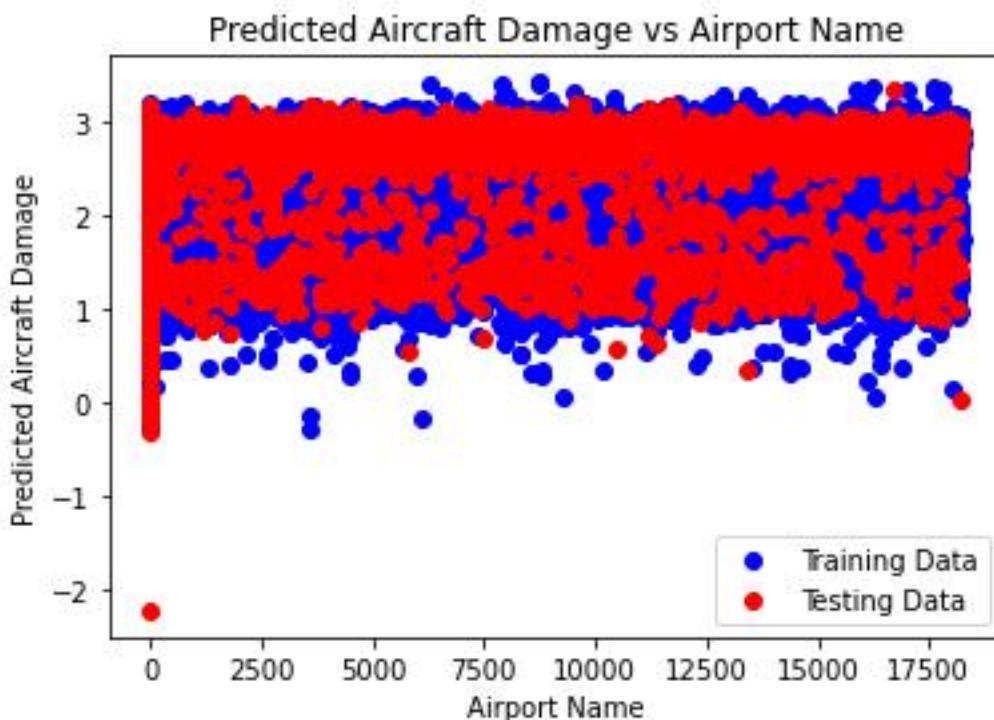
- The x-axis corresponds to the levels of injury severity, ranging from 0 to 120.
- The y-axis represents the predicted aircraft damage, spanning from -2 to 3.

2. Data Representation:

- Blue dots signify instances from the training dataset, while red dots depict instances from the testing dataset.
- The scattered distribution of data points indicates the variability in predicted aircraft damage across different levels of injury severity.

3. Analysis of Scatter Pattern:

- Despite the scatter pattern, there appears to be no clear linear trend between injury severity and predicted aircraft damage. This suggests that additional factors beyond injury severity contribute to the extent of aircraft damage.
- The presence of vertical lines aligning multiple dots at specific injury severity points may indicate certain critical thresholds or conditions where the predicted aircraft damage converges.



The scatter plot provided depicts the relationship between predicted aircraft damage and the location of the accidents. The x-axis likely represents the geographic location where the aircraft accidents occurred, although the specific format of the location data is not explicitly stated. On the other hand, the y-axis denotes the predicted severity of aircraft damage resulting from these accidents. Additionally, a red line is superimposed on the plot, depicting the general trend of predicted aircraft damage across different locations.

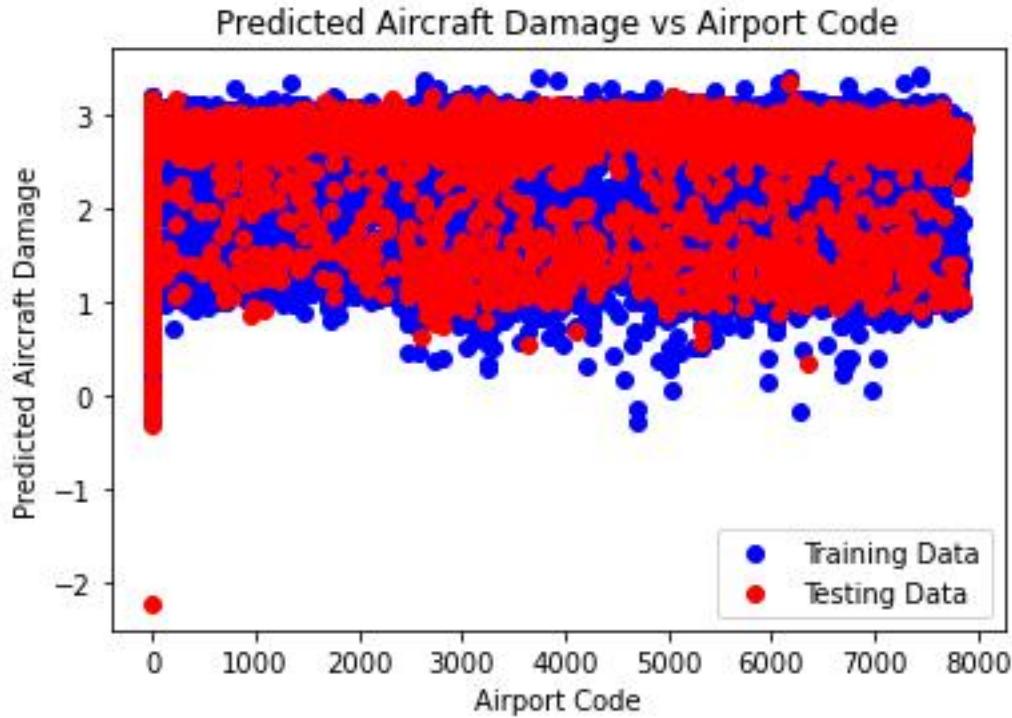
Interpretation:

The scatter of blue dots around the red line suggests variability in predicted damage outcomes across different accident locations. This variability indicates that a direct one-to-one relationship between location and predicted damage severity may not be straightforward. Various factors such as weather conditions, terrain characteristics, type of aircraft involved, and adherence to safety protocols can contribute to the observed variation in predicted damage outcomes.

Possible Observations:

- Given the absence of a discernible geographical pattern in the data, it is challenging to determine whether specific locations consistently exhibit higher or lower predicted aircraft damage.
- A more detailed analysis of specific locations along the x-axis may reveal underlying patterns, particularly if the location data is grouped by country, region, or other relevant criteria.

Overall, while the plot hints at potential influences of location on predicted aircraft damage, it underscores the significance of considering additional factors in accurately predicting damage outcomes. Further investigation, incorporating additional variables and contextual insights, is necessary to comprehensively understand the relationship between accident location and predicted aircraft damage severity.



The provided scatter plot illustrates the relationship between predicted aircraft damage and airport codes. Each data point on the plot corresponds to a specific airport, with the x-axis representing the airport code and the y-axis representing the predicted aircraft damage.

Interpretation:

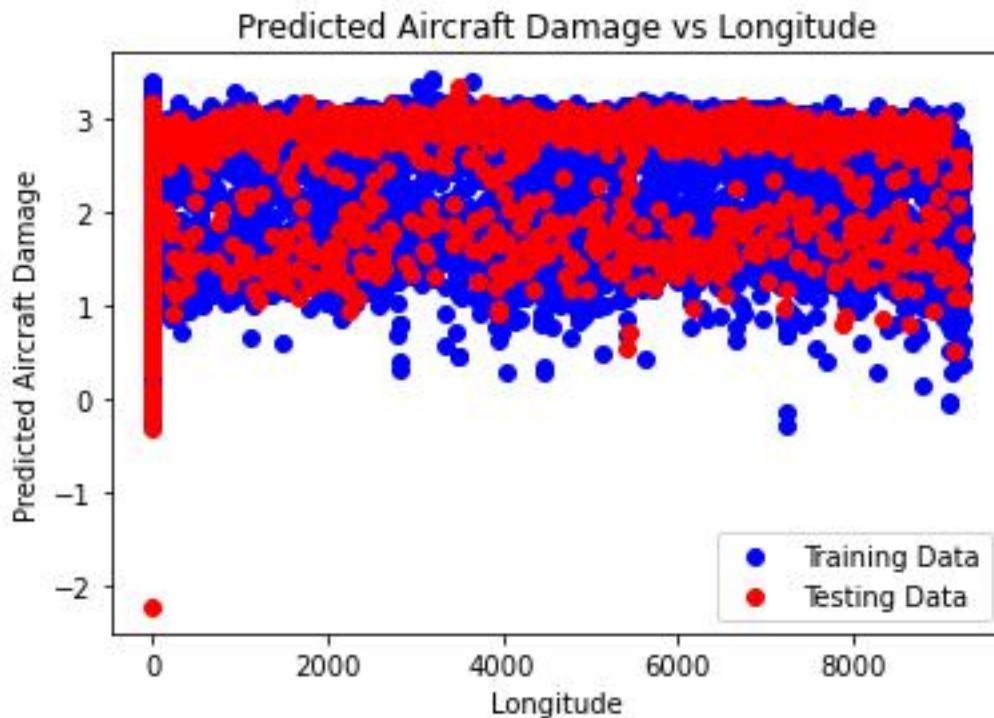
The alignment of the blue line with the red line suggests that the model generalizes well to unseen data, indicating a consistent prediction of aircraft damage across different airports. However, the presence of outliers, denoted by data points deviating significantly from the trend lines, suggests variability in the predicted damage for certain airports.

Additional Considerations:

- The dispersion of data points around the trend lines provides insights into the variability and distribution of predicted damage across different airports.
- Assessing the strength of the relationship between airport codes and predicted damage involves examining the clustering of data points. Tight clusters indicate a stronger relationship, while scattered data points imply a weaker association.

- The slope of the trend lines indicates the direction of the relationship between airport codes and predicted damage. A positive slope suggests a positive relationship, while a negative slope implies a negative relationship.

It is essential to emphasize that correlation does not imply causation. While a relationship between airport codes and predicted damage is observed, further analysis is needed to understand the underlying factors contributing to this relationship. Additionally, outliers should be carefully examined to determine their impact on the overall trend and model performance.



The provided scatter plot illustrates the relationship between predicted aircraft damage and longitude. Each data point on the plot corresponds to an aircraft, with the x-axis representing the longitude and the y-axis representing the predicted aircraft damage.

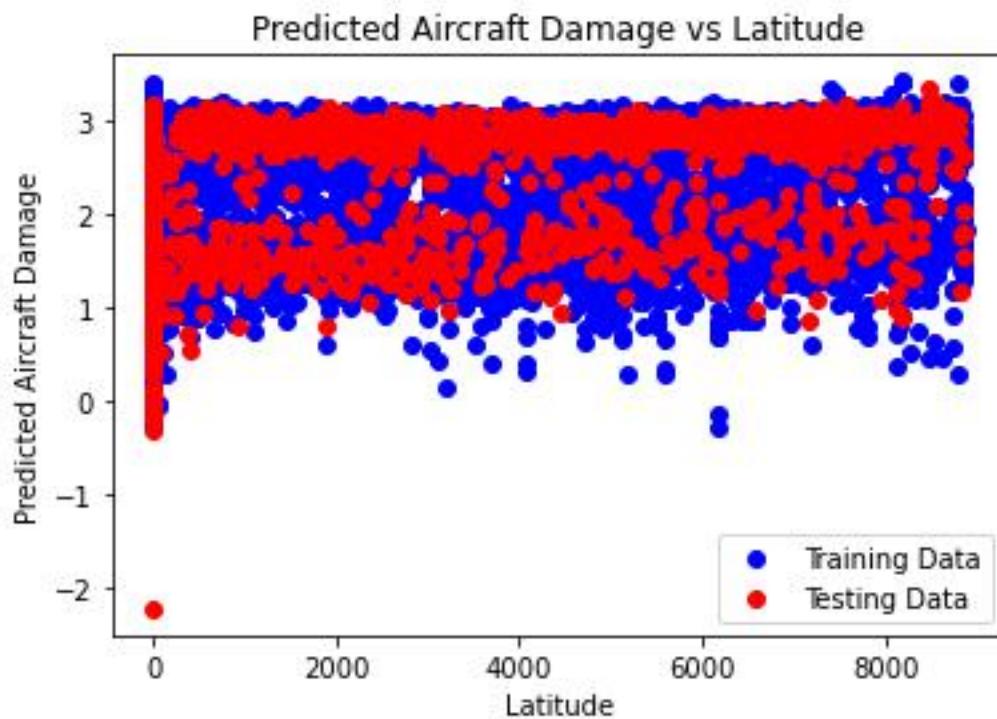
Interpretation:

The alignment of the blue line with the red line suggests that the model generalizes well to unseen data, indicating consistent prediction of aircraft damage across different longitudes. However, the presence of outliers, denoted by data points deviating significantly from the trend lines, suggests variability in the predicted damage for certain longitudes.

Additional Considerations:

- The dispersion of data points around the trend lines provides insights into the variability and distribution of predicted damage across different longitudes.
- Assessing the strength of the relationship between longitude and predicted damage involves examining the clustering of data points. Tight clusters indicate a stronger relationship, while scattered data points imply a weaker association.
- The slope of the trend lines indicates the direction of the relationship between longitude and predicted damage. A positive slope suggests a positive relationship, while a negative slope implies a negative relationship.

It is essential to emphasize that correlation does not imply causation. While a relationship between longitude and predicted damage is observed, further analysis is needed to understand the underlying factors contributing to this relationship. Additionally, outliers should be carefully examined to determine their impact on the overall trend and model performance.



The provided scatter plot depicts the relationship between predicted aircraft damage and latitude. Each data point represents an aircraft, with latitude on the x-axis and predicted aircraft damage on the y-axis.

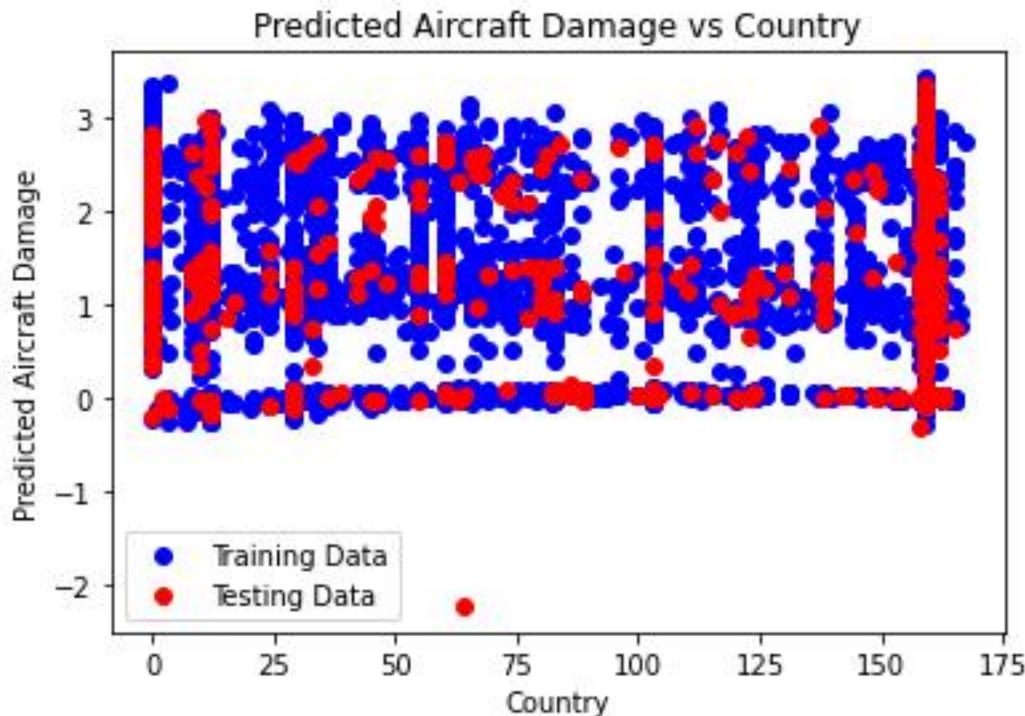
Interpretation:

The alignment of the blue line with the red line indicates that the model generalizes well to unseen data, suggesting consistent prediction of aircraft damage across different latitudes. However, the presence of outliers suggests variability in predicted damage for certain latitudes.

Additional Considerations:

- The dispersion of data points around the trend lines provides insights into the variability and distribution of predicted damage across different latitudes.
- Assessing the strength of the relationship between latitude and predicted damage involves examining the clustering of data points. Tight clusters indicate a stronger relationship, while scattered data points imply a weaker association.
- The absence of a clear upward or downward trend suggests a weak relationship between latitude and predicted aircraft damage. However, further analysis is required to confirm this observation.

It is crucial to emphasize that correlation does not imply causation. While a relationship between latitude and predicted damage is observed, additional factors may influence this relationship. Furthermore, outliers should be carefully evaluated to understand their impact on the overall trend and model performance.



The provided scatter plot illustrates the relationship between predicted aircraft damage and the country in which airports are located. The x-axis denotes country codes, while the y-axis represents predicted aircraft damage. Each data point represents an airport, displaying the predicted damage for that specific location.

Interpretation:

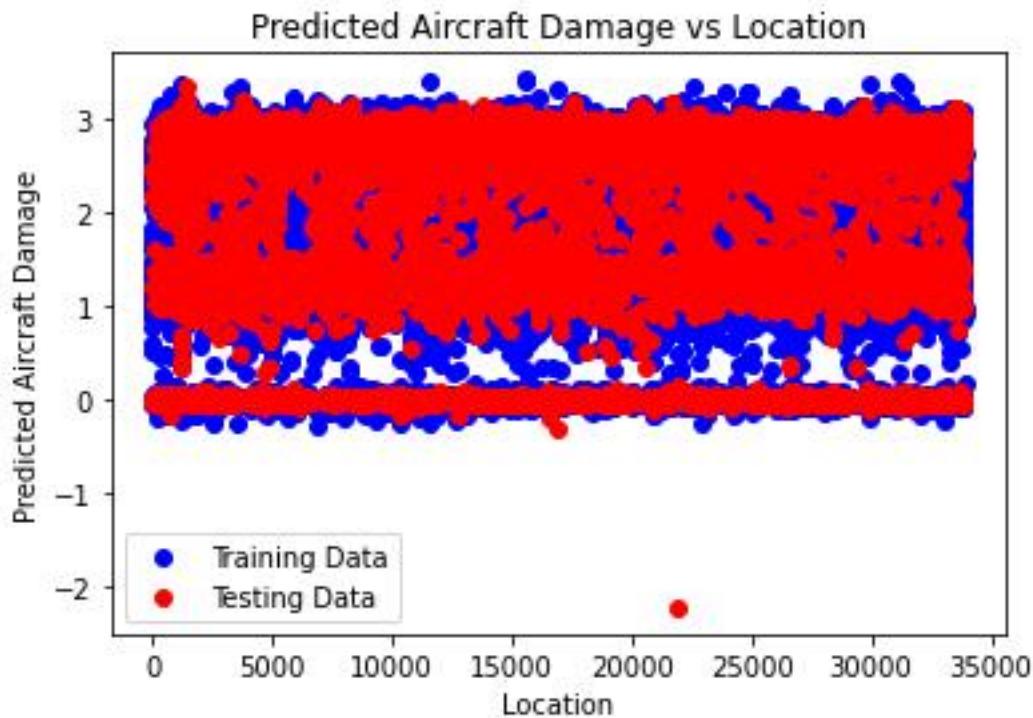
The alignment of the blue line with the red line suggests that the model effectively generalizes to unseen data, indicating consistent predictions across different countries. However, the presence of outliers indicates variability in predicted damage for certain airports.

Additional Considerations:

- The dispersion of data points along the x-axis indicates the distribution of predicted damage across different countries.
- Assessing the strength of the relationship between country and predicted damage involves examining the clustering of data points. Random scattering suggests a weak relationship, while tight clusters imply a stronger association.
- The absence of a discernible trend in the red or blue lines suggests no clear relationship between country and predicted aircraft damage.

It is essential to note that the absence of a relationship between variables does not imply their lack of connection. Other factors not considered in this analysis may influence the relationship between country and predicted aircraft damage.

Moreover, outliers should be carefully examined to understand their impact on the overall trend and model performance. Additionally, correlation does not imply causation, emphasizing the need for further investigation before drawing conclusive interpretations.



The provided scatter plot depicts the relationship between predicted aircraft damage and location. The x-axis denotes location, while the y-axis represents predicted aircraft damage. Each data point represents an airport, displaying the predicted damage for that specific location.

Interpretation:

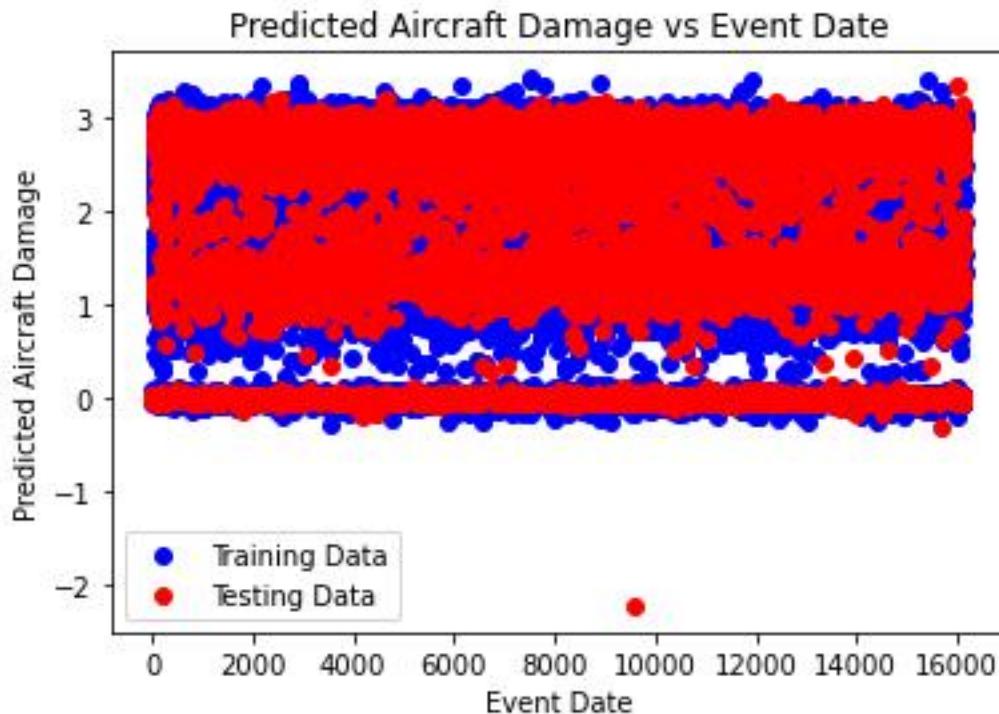
The alignment of the blue line with the red line indicates that the model effectively generalizes to unseen data, suggesting consistent predictions across different locations. However, the presence of outliers suggests variability in predicted damage for certain airports.

Additional Considerations:

- The dispersion of data points along the x-axis indicates the distribution of predicted damage across different locations.
- Assessing the strength of the relationship between location and predicted damage involves examining the clustering of data points. Random scattering suggests a weak relationship, while tight clusters imply a stronger association.
- The absence of a discernible trend in the red or blue lines suggests no clear relationship between location and predicted aircraft damage.

It is essential to note that the absence of a relationship between variables does not imply their lack of connection. Other factors not considered in this analysis may influence the relationship between location and predicted aircraft damage.

Moreover, outliers should be carefully examined to understand their impact on the overall trend and model performance. Additionally, correlation does not imply causation, emphasizing the need for further investigation before drawing conclusive interpretations.



The provided scatter plot illustrates the relationship between predicted aircraft damage and the event date. The x-axis represents the event date, while the y-axis denotes predicted aircraft damage. Each data point on the plot signifies an aircraft damage event, showcasing the predicted damage for that specific event.

Interpretation:

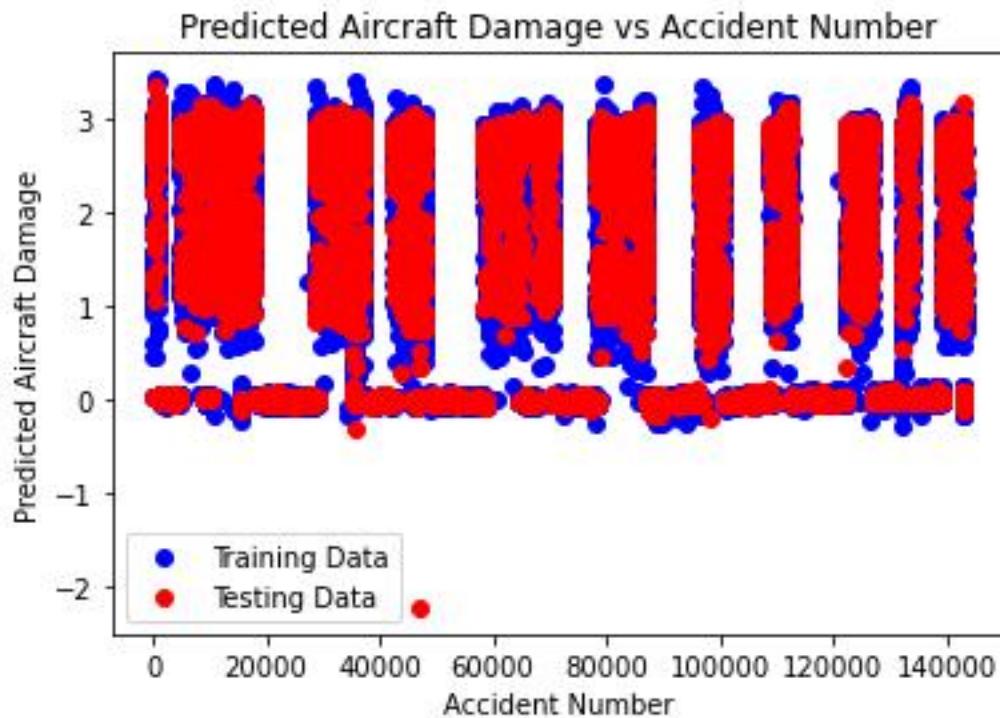
The alignment of the blue line with the red line indicates that the model effectively generalizes to unseen data, suggesting consistent predictions across different event dates. However, the presence of outliers suggests variability in predicted damage for certain events.

Additional Considerations:

- The dispersion of data points along the x-axis reflects the distribution of predicted damage across different event dates.
- Evaluating the strength of the relationship between event date and predicted damage entails examining the clustering of data points. Random scattering implies a weak relationship, while tight clusters indicate a stronger association.
- The absence of a discernible trend in the red or blue lines suggests no clear relationship between the event date and predicted aircraft damage.

It is crucial to note that the absence of a relationship between variables does not necessarily indicate their lack of connection. Other factors not considered in this analysis may influence the relationship between the event date and predicted aircraft damage.

Furthermore, outliers warrant careful examination to discern their impact on the overall trend and model performance. Additionally, it is essential to remember that correlation does not imply causation, highlighting the necessity for further investigation before drawing conclusive interpretations.



The scatter plot provided illustrates the correlation between predicted aircraft damage and the number of accidents an aircraft has encountered, under the title "Predicted Aircraft Damage vs Accident Number". On the plot, the x-axis represents the number of accidents, while the y-axis denotes predicted aircraft damage. Each plotted point signifies an aircraft, showcasing the predicted damage corresponding to the specific number of accidents it has endured.

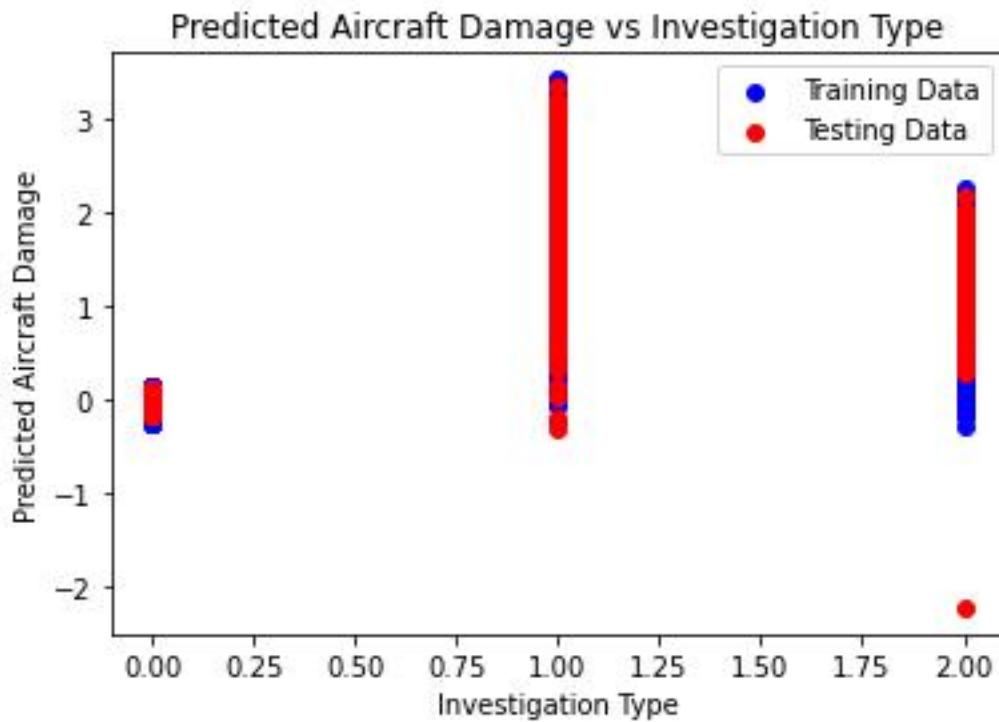
Interpretation:

The convergence of the blue line with the red line suggests that the model effectively extrapolates to unseen data, indicating consistent predictive accuracy across diverse accident frequencies. Nonetheless, the existence of outliers, represented by data points significantly deviating from the red line, implies variability in the predicted damage for specific aircraft instances.

Additional Considerations:

- The positive inclination of both the red and blue lines implies a direct correlation between the number of accidents an aircraft has encountered and the anticipated magnitude of damage. As the accident count escalates, the projected aircraft damage similarly increases.
- The strength of this correlation can be evaluated by assessing the clustering pattern of data points. A denser cluster indicates a more robust association between accident count and predicted damage.
- It is crucial to recognize that while the plot hints at a relationship between accident frequency and predicted damage, correlation does not equate to causation. Various factors, such as maintenance history, aircraft age, and operational conditions, may influence this relationship.

In summary, the plot suggests a positive correlation between an aircraft's accident count and the anticipated damage level. Nevertheless, conducting further analysis is imperative to elucidate the underlying determinants driving this relationship and to refrain from making causal inferences solely based on correlation.



The provided scatter plot illustrates the relationship between predicted aircraft damage and investigation type, titled "Predicted Aircraft Damage vs Investigation Type". The x-axis denotes the investigation type, while the y-axis represents predicted aircraft damage. Each data point on the plot signifies an aircraft incident, depicting the predicted damage corresponding to the investigation type of that incident.

Interpretation:

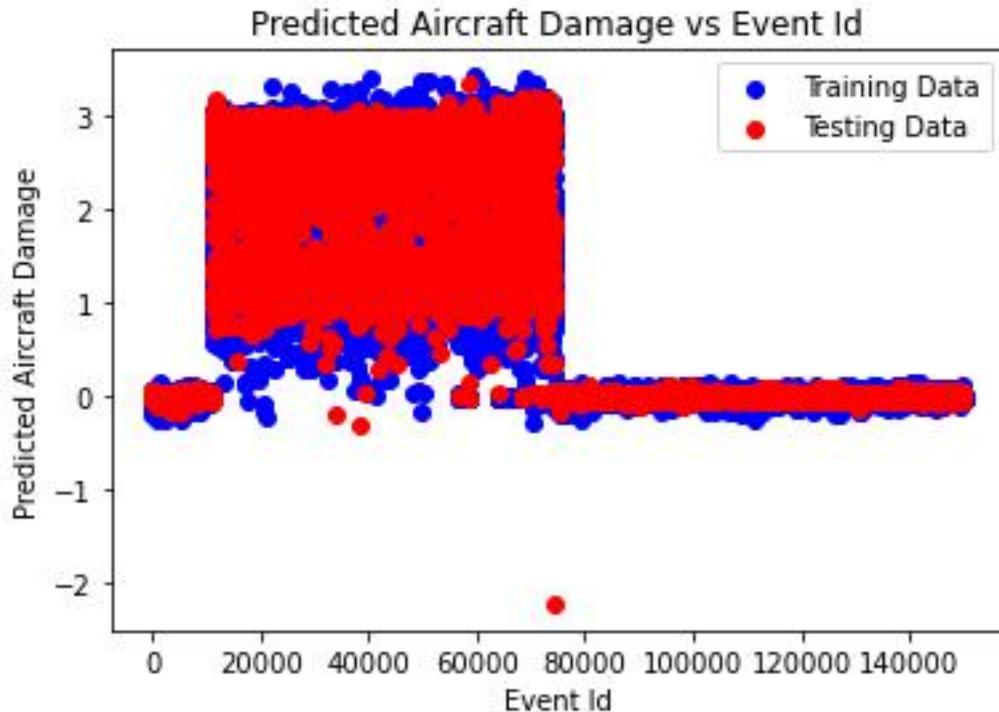
The alignment of the blue line with the red line suggests that the model effectively generalizes to unseen data, indicating consistent predictions across different investigation types. However, the presence of outliers, depicted as data points far from the red line, suggests variability in predicted damage for certain incidents.

Additional Considerations:

- The scattered distribution of data points and the absence of a clear trend indicate a weak relationship between investigation type and predicted aircraft damage. Without complete labels for the investigation types, it is challenging to ascertain specific patterns or trends.
- Assessing the strength of the relationship involves examining the clustering of data points. A denser cluster would indicate a stronger association between investigation type and predicted damage.

- It is crucial to exercise caution when inferring causality from correlation. While the plot suggests a relationship between investigation type and predicted damage, other unaccounted factors may influence this relationship.

Overall, the plot hints at a potential but weak relationship between investigation type and predicted aircraft damage. However, further analysis, including complete investigation type labels, is necessary to draw definitive conclusions and to avoid making causal assumptions solely based on correlation.



The provided scatter plot, titled "Predicted Aircraft Damage vs Event ID," illustrates the relationship between predicted aircraft damage and the event ID. The x-axis denotes the event ID, while the y-axis represents predicted aircraft damage. Each data point on the plot signifies an aircraft damage event, depicting the predicted damage corresponding to the event ID.

Interpretation:

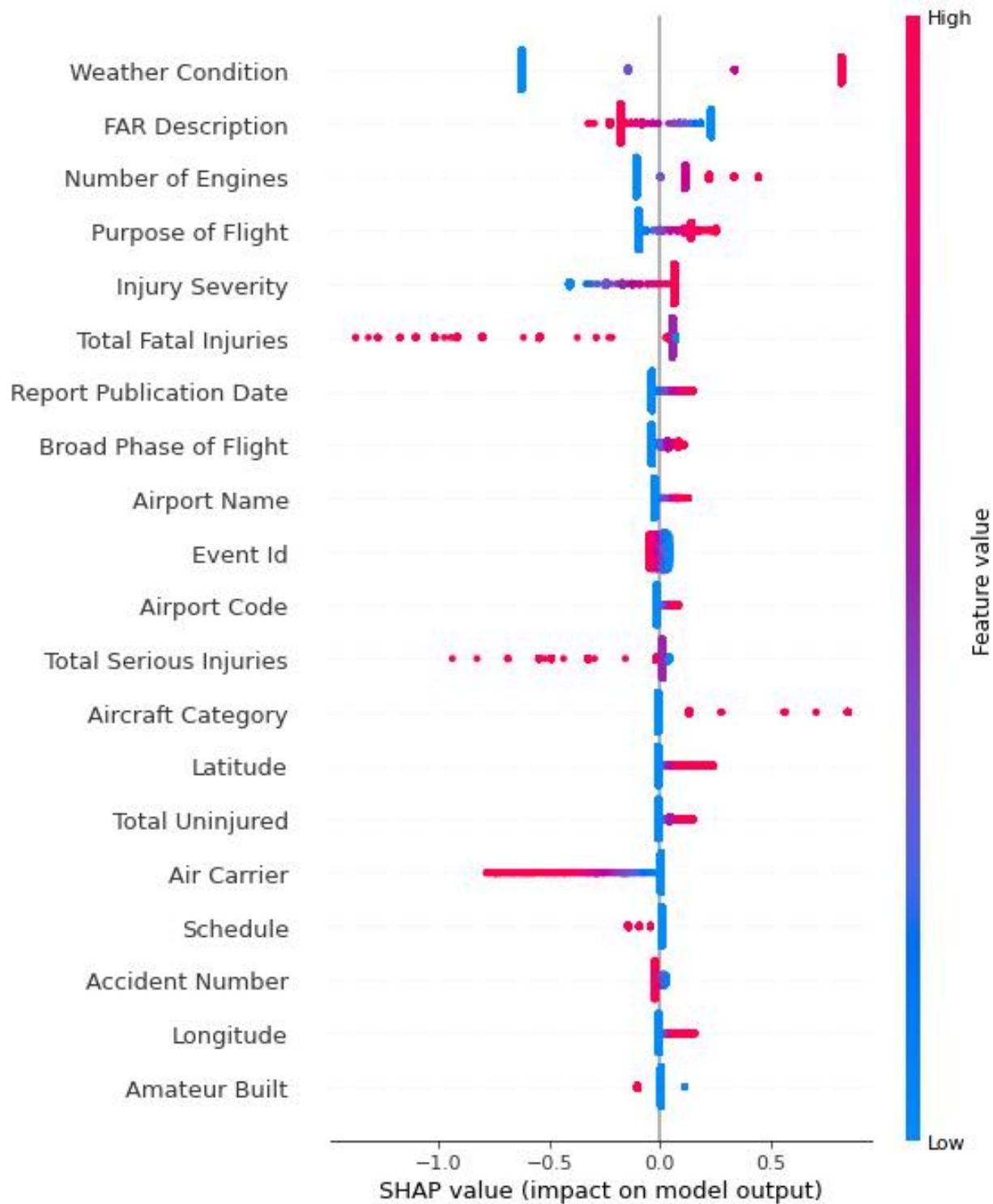
The alignment of the blue line with the red line suggests that the model effectively generalizes to unseen data, indicating consistent predictions across different event IDs. However, the presence of outliers, depicted as data points far from the red line, suggests variability in predicted damage for certain events.

Additional Considerations:

- The scattered distribution of data points and the absence of a clear trend indicate no discernible relationship between the event ID and predicted aircraft damage. The lack of clustering or consistent direction in the red and blue lines further supports this observation.
- Assessing the strength of the relationship involves examining the clustering of data points. A denser cluster would suggest a stronger association between the event ID and predicted damage, which is not observed in this plot.
- It is crucial to exercise caution when inferring causality from correlation. The absence of a relationship between event ID and predicted damage does not preclude the possibility of other variables influencing the damage prediction.

Overall, the plot suggests no clear relationship between the event ID of an aircraft damage event and the predicted amount of damage. Further analysis may be warranted to explore potential factors influencing aircraft damage prediction beyond the event ID.

SHAP-INTERPRETATION:



Supplementary-3:

Function of 'Fatalities':

1. Operator and Aircraft Types:

- The dataset encompasses information about various operators, including Military - U.S. Army, Military - U.S. Navy, Private entities, and others.
- Aircraft types vary widely, ranging from early models like the Wright Flyer III to more modern ones such as Dirigibles, Curtiss seaplanes, Zeppelin airships, and De Havilland DH-4.

2. Aircraft Components and Systems:

- Different aircraft are equipped with distinct systems and components. For instance, the Wright Flyer III features basic control systems as an early fixed-wing aircraft.
- Dirigibles, characterized by large gas-filled envelopes, may include propulsion and steering systems in their design.

3. Fatalities and Ground Casualties:

- The dataset provides details on the number of individuals on board, fatalities, and ground casualties for each incident.
- Analyzing the causes of fatalities involves exploring specific aircraft components, potential system failures, or external factors.

4. Engine Types:

- Engine types like Curtiss seaplane, De Havilland DH-4, and Curtiss R-4LM represent diverse propulsion systems.
- Each engine type is associated with its unique set of components and systems relevant to incident understanding.

5. Test Flights:

- Several incidents are categorized as "Test flight," indicating that the aircraft might have been undergoing testing or system evaluation.
- Test flights play a crucial role in identifying potential issues with various aircraft systems.

6. Military Operations:

- Incidents involving Military - U.S. Army and Military - German Navy suggest military operations.
- Military aircraft feature specific systems related to their mission, such as weaponry, communication, and navigation.

7. Time and Location:

- Time and location data are essential for comprehending environmental factors and external conditions contributing to incidents.

8. Record ID and Registration:

- Each incident is assigned a unique Record ID for identification purposes.
- Registration details offer information about the specific aircraft involved in each incident.

Linear Equation: Fatalities= (1.0) * Time + (1.0) * Location + (-0.26) * Operator + (1.0) * Flight + (1.0) * Route + (1.0) * Type + (1.0) * cn/In + (1.0) * Aboard + (1.17)

ENCODING ONLY CATEGORICAL VARIABLE:

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 -3.47427337e-05 -3.12747493e-05 -8.83990145e-04 8.37086836e-03
 -2.55925272e-04]

intercept -6.291467870344039

Equation: Fatalities= -6.291467870 + 0.009316367 * Time + 0.005546870 * Location +
 0.000231012 * Operator + 0.019935456 * Flight # + -0.004069628 * Route + 0.001737096 *
 Type + -0.003959278 * Registration + 0.000290241 * cn/In + 0.969088894 * Aboard +
 0.062157968 * Ground + 0.000000246 * Date*2 + -0.000001077 * Date1*Time1 + -
 0.000000082 * Date1*Location1 + 0.000000652 * Date1*Operator1 + -0.000001122 *
 Date1*Flight #1 + 0.000000161 * Date1*Route1 + 0.000000438 * Date1*Type1 + -
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 Location1*Operator1 + 0.000002467 * Location1*Flight #1 + -0.000000216 *
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 Location1*Registration1 + 0.000000328 * Location1*cn/In1 + 0.000059657 *
 Location1*Aboard1 + 0.000047771 * Location1*Ground1 + -0.000000155 * Operator2 + -
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 * Flight #1*Registration1 + 0.000000506 * Flight #1*cn/In1 + -0.000435582 * Flight
 #1*Aboard1 + -0.000716372 * Flight #1*Ground1 + 0.000000414 * Route2 + 0.000000180 *

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Accuracy: 0.7397728344172139

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-5.14549750e-03]

intercept -5.482654169449447

Equation: Fatalities= -5.482654 + 0.016014 * Time + 0.004602 * Location + -0.002515 * Operator + 0.011671 * Flight # + -0.000047 * Route + 0.000200 * Type + -0.003957 * Registration + -0.001803 * cn/In + 1.122680 * Aboard + -0.074345 * Ground + 0.000000 * Date^2 + -0.000001 * Date^1*Time^1 + -0.000000 * Date^1*Location^1 + 0.000001 * Date^1*Operator^1 + -0.000002 * Date^1*Flight #^1 + 0.000000 * Date^1*Route^1 + 0.000000 * Date^1>Type^1 + -0.000000 * Date^1*Registration^1 + -0.000000 * Date^1*cn/In^1 + -0.000014 * Date^1*Aboard^1 + -0.000003 * Date^1*Ground^1 + -0.000011 * Time^2 + -0.000001 * Time^1*Location^1 + -0.000000 * Time^1*Operator^1 + 0.000003 * Time^1*Flight #^1 + -0.000000 * Time^1*Route^1 + -0.000000 * Time^1>Type^1 + 0.000000 * Time^1*Registration^1 + 0.000000 * Time^1*cn/In^1 + -0.000150 * Time^1*Aboard^1 + 0.000047 * Time^1*Ground^1 + -0.000001 * Location^2 + 0.000000 * Location^1*Operator^1 + 0.000002 * Location^1*Flight #^1 + -0.000000 * Location^1*Route^1 + 0.000000 * Location^1>Type^1 + -0.000000 * Location^1*Registration^1 + 0.000000 * Location^1*cn/In^1 + 0.000040 * Location^1*Aboard^1 + -0.000073 * Location^1*Ground^1 + 0.000000 * Operator^2 + -0.000002 * Operator^1*Flight #^1 + -0.000000 * Operator^1*Route^1 + 0.000000 * Operator^1>Type^1 + 0.000000 * Operator^1*Registration^1 + 0.000000 * Operator^1*cn/In^1 + -0.000032 * Operator^1*Aboard^1 + 0.000071 * Operator^1*Ground^1 + -0.000001 * Flight #^2 + -0.000001 * Flight #^1*Route^1 + -0.000002 * Flight #^1>Type^1 + -0.000000 * Flight #^1*Registration^1 + 0.000002 * Flight #^1*cn/In^1 + -0.000228 * Flight #^1*Aboard^1 + -0.000206 * Flight #^1*Ground^1 + 0.000000 * Route^2 + 0.000000 * Route^1*Type^1 + -0.000000 * Route^1*Registration^1 + 0.000000 * Route^1*cn/In^1 + -0.000005 * Route^1*Aboard^1 + 0.000027 * Route^1*Ground^1 + -0.000000 * Type^2 + 0.000000 * Type^1*Registration^1 + -0.000000 * Type^1*cn/In^1 + 0.000017 * Type^1*Aboard^1 + -0.000126 * Type^1*Ground^1 + 0.000001 * Registration^2 + 0.000000 * Registration^1*cn/In^1 + -0.000007 * Registration^1*Aboard^1 + 0.000070 * Registration^1*Ground^1 + -0.000000 * cn/In^2 + -0.000006 * cn/In^1*Aboard^1 + 0.000027 * cn/In^1*Ground^1 + -0.002286 * Aboard^2 + 0.011999 * Aboard^1*Ground^1 + -0.005145 * Ground^2

Accuracy: 0.7001682530914266

DEGREE-3:

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3.13245542e-10 1.42990409e-10 5.36819786e-10 -1.47208430e-10
3.44525578e-10 5.50087825e-09 6.79627567e-07 1.37650559e-09
1.85380822e-09 4.52969373e-10 1.22277276e-09 1.52977068e-09
1.22968443e-07 -4.49568418e-07 3.74866183e-10 3.20366754e-10
2.07253780e-11 -7.12774024e-11 -1.39232887e-08 1.02866013e-07
-1.22186754e-10 -1.64320105e-10 1.46956640e-11 2.38562745e-08
1.09424229e-09 -1.00664712e-10 2.68779790e-11 -4.31294105e-09
-5.27069708e-08 1.39237098e-10 6.27226549e-09 -8.24732590e-08
-1.90468839e-07 2.33452276e-06 -1.00563808e-05 -2.14108494e-09
-3.29565072e-09 2.94338787e-10 -4.25249241e-10 -2.49521172e-11
-5.97541117e-10 1.07753297e-08 -4.28121603e-07 -1.95428786e-08
-3.26589446e-09 3.25318061e-09 5.85511596e-11 -1.03351956e-09
-1.39209396e-07 1.50491231e-06 6.91707513e-10 1.53613779e-10
2.17642640e-10 7.47642321e-11 2.07504398e-08 -1.15698369e-07
-1.28612570e-09 -5.92024184e-10 2.27857204e-10 4.11372742e-09
4.46999044e-07 3.73309047e-10 1.92763420e-10 -1.24114578e-09
-1.98573687e-07 1.37477354e-10 3.53110914e-08 1.80018712e-07
-2.50146889e-07 -6.08496401e-06 3.14031190e-05 -1.24520792e-07
1.50323182e-09 1.45050154e-08 6.78438932e-09 -6.15508439e-09
2.50755949e-07 -1.55572061e-05 -4.13918014e-09 2.52224260e-09

-3.28045399e-09 2.57063781e-10 -4.04520383e-09 -3.39978312e-06
 -9.42060902e-10 -3.74777729e-10 -2.35260920e-09 -1.33722296e-07
 3.32117703e-06 -3.41582281e-10 2.40648720e-09 -1.00961983e-08
 1.08225805e-06 1.51789753e-09 2.69134515e-07 2.01160330e-06
 -2.91925613e-06 -3.89150826e-05 -1.70615778e-04 -3.94938519e-10
 -2.61939131e-10 -1.48986408e-10 -3.52089365e-10 -1.23411029e-08
 -5.12800105e-07 2.98325204e-10 -2.48548252e-11 -1.10400808e-10
 2.18263131e-08 -1.09549699e-07 3.24375956e-10 -1.49544226e-10
 -1.30262163e-08 -1.65394081e-07 -1.52494104e-10 1.59957590e-08
 -9.69114935e-08 3.23506433e-07 -6.18608752e-06 1.72663949e-05
 7.83341222e-11 1.98410288e-10 5.94533281e-10 -6.83082320e-08
 3.17949647e-07 -3.31456427e-10 -1.70544168e-10 3.33397425e-08
 1.25372728e-07 1.73516573e-10 -3.47228917e-08 -3.89346283e-07
 -4.17351764e-07 7.43369705e-07 9.48683325e-06 2.52134948e-10
 9.59064247e-11 4.13152195e-08 -1.18924291e-07 3.53720341e-11
 -4.67215561e-09 1.05501010e-07 2.55037859e-07 -2.74753309e-06
 8.90136986e-06 -1.64806315e-10 -6.04046004e-08 6.71553708e-08
 -2.43749023e-08 8.25059565e-07 -2.67693906e-06 -1.06619570e-05
 2.91643314e-04 -4.40953728e-04 -5.55197105e-04]

intercept 29.931634395205265

Equation: Fatalities= 29.931634 + -0.020660 * Time + -0.009719 * Location + -0.020829 * Operator + -0.042184 * Flight # + -0.013050 * Route + -0.010445 * Type + -0.001573 * Registration + 0.009356 * cn/In + 0.279199 * Aboard + 4.684366 * Ground + -0.000001 * Date^2 + -0.000010 * Date^1*Time^1 + 0.000002 * Date^1*Location^1 + -0.000000 * Date^1*Operator^1 + 0.000015 * Date^1*Flight #^1 + 0.000000 * Date^1*Route^1 + 0.000001 * Date^1>Type^1 + 0.000001 * Date^1*Registration^1 + -0.000001 * Date^1*cn/In^1 +

0.000075 * Date^1*Aboard^1 + -0.001348 * Date^1*Ground^1 + 0.000049 * Time^2 + -
 0.000001 * Time^1*Location^1 + 0.000012 * Time^1*Operator^1 + -0.000031 * Time^1*Flight
 #^1 + -0.000001 * Time^1*Route^1 + 0.000004 * Time^1*Type^1 + 0.000009 *
 Time^1*Registration^1 + -0.000007 * Time^1*cn/In^1 + 0.001017 * Time^1*Aboard^1 + -
 0.006224 * Time^1*Ground^1 + 0.000005 * Location^2 + 0.000000 * Location^1*Operator^1 +
 -0.000002 * Location^1*Flight #^1 + -0.000003 * Location^1*Route^1 + -0.000000 *
 Location^1*Type^1 + 0.000000 * Location^1*Registration^1 + -0.000001 * Location^1*cn/In^1
 + 0.000398 * Location^1*Aboard^1 + -0.001199 * Location^1*Ground^1 + 0.000010 *
 Operator^2 + 0.000050 * Operator^1*Flight #^1 + -0.000004 * Operator^1*Route^1 + 0.000001
 * Operator^1*Type^1 + -0.000001 * Operator^1*Registration^1 + -0.000001 *
 Operator^1*cn/In^1 + -0.000174 * Operator^1*Aboard^1 + -0.001918 * Operator^1*Ground^1
 + 0.000111 * Flight #^2 + 0.000009 * Flight #^1*Route^1 + -0.000006 * Flight #^1*Type^1 + -
 0.000002 * Flight #^1*Registration^1 + -0.000015 * Flight #^1*cn/In^1 + -0.000127 * Flight
 #^1*Aboard^1 + 0.009105 * Flight #^1*Ground^1 + 0.000007 * Route^2 + -0.000003 *
 Route^1*Type^1 + 0.000002 * Route^1*Registration^1 + 0.000002 * Route^1*cn/In^1 + -
 0.000050 * Route^1*Aboard^1 + 0.004775 * Route^1*Ground^1 + 0.000001 * Type^2 +
 0.000004 * Type^1*Registration^1 + 0.000000 * Type^1*cn/In^1 + 0.000255 *
 Type^1*Aboard^1 + -0.002890 * Type^1*Ground^1 + -0.000002 * Registration^2 + -0.000002
 * Registration^1*cn/In^1 + -0.000212 * Registration^1*Aboard^1 + 0.000225 *
 Registration^1*Ground^1 + 0.000001 * cn/In^2 + -0.000045 * cn/In^1*Aboard^1 + -0.002118 *
 cn/In^1*Ground^1 + 0.003123 * Aboard^2 + 0.022315 * Aboard^1*Ground^1 + 0.043607 *
 Ground^2 + 0.000000 * Date^3 + 0.000000 * Date^2*Time^1 + -0.000000 * Date^2*Location^1
 + 0.000000 * Date^2*Operator^1 + -0.000000 * Date^2*Flight #^1 + -0.000000 *
 Date^2*Route^1 + -0.000000 * Date^2*Type^1 + 0.000000 * Date^2*Registration^1 +
 0.000000 * Date^2*cn/In^1 + 0.000000 * Date^2*Aboard^1 + 0.000000 * Date^2*Ground^1 +
 0.000000 * Date^1*Time^2 + 0.000000 * Date^1*Time^1*Location^1 + 0.000000 *
 Date^1*Time^1*Operator^1 + -0.000000 * Date^1*Time^1*Flight #^1 + 0.000000 *
 Date^1*Time^1*Route^1 + 0.000000 * Date^1*Time^1*Type^1 + -0.000000 *
 Date^1*Time^1*Registration^1 + 0.000000 * Date^1*Time^1*cn/In^1 + -0.000000 *
 Date^1*Time^1*Aboard^1 + -0.000000 * Date^1*Time^1*Ground^1 + 0.000000 *
 Date^1*Location^2 + -0.000000 * Date^1*Location^1*Operator^1 + 0.000000 *
 Date^1*Location^1*Flight #^1 + -0.000000 * Date^1*Location^1*Route^1 + 0.000000 *
 Date^1*Location^1*Type^1 + 0.000000 * Date^1*Location^1*Registration^1 + -0.000000 *
 Date^1*Location^1*cn/In^1 + -0.000000 * Date^1*Location^1*Aboard^1 + 0.000000 *
 Date^1*Location^1*Ground^1 + 0.000000 * Date^1*Operator^2 + -0.000000 *
 Date^1*Operator^1*Flight #^1 + -0.000000 * Date^1*Operator^1*Route^1 + 0.000000 *
 Date^1*Operator^1*Type^1 + -0.000000 * Date^1*Operator^1*Registration^1 + 0.000000 *
 Date^1*Operator^1*cn/In^1 + 0.000000 * Date^1*Operator^1*Aboard^1 + 0.000000 *
 Date^1*Operator^1*Ground^1 + -0.000000 * Date^1*Flight #^2 + 0.000000 * Date^1*Flight
 #^1*Route^1 + -0.000000 * Date^1*Flight #^1*Type^1 + -0.000000 * Date^1*Flight
 #^1*Registration^1 + -0.000000 * Date^1*Flight #^1*cn/In^1 + -0.000000 * Date^1*Flight
 #^1*Aboard^1 + 0.000001 * Date^1*Flight #^1*Ground^1 + -0.000000 * Date^1*Route^2 + -
 0.000000 * Date^1*Route^1*Type^1 + 0.000000 * Date^1*Route^1*Registration^1 + -
 0.000000 * Date^1*Route^1*cn/In^1 + 0.000000 * Date^1*Route^1*Aboard^1 + 0.000000 *
 Date^1*Route^1*Ground^1 + 0.000000 * Date^1*Type^2 + -0.000000 *
 Date^1*Type^1*Registration^1 + 0.000000 * Date^1*Type^1*cn/In^1 + 0.000000 *

Date¹*Type¹*Aboard¹ + -0.000000 * Date¹*Type¹*Ground¹ + -0.000000 *
 Date¹*Registration² + -0.000000 * Date¹*Registration¹*cn/In¹ + -0.000000 *
 Date¹*Registration¹*Aboard¹ + -0.000000 * Date¹*Registration¹*Ground¹ + 0.000000
 * Date¹*cn/In² + 0.000000 * Date¹*cn/In¹*Aboard¹ + 0.000000 *
 Date¹*cn/In¹*Ground¹ + 0.000000 * Date¹*Aboard² + 0.000001 *
 Date¹*Aboard¹*Ground¹ + 0.000004 * Date¹*Ground² + -0.000000 * Time³ +
 0.000000 * Time²*Location¹ + -0.000000 * Time²*Operator¹ + 0.000000 * Time²*Flight
 #¹ + -0.000000 * Time²*Route¹ + 0.000000 * Time²*Type¹ + 0.000000 *
 Time²*Registration¹ + 0.000000 * Time²*cn/In¹ + -0.000001 * Time²*Aboard¹ +
 0.000006 * Time²*Ground¹ + -0.000000 * Time¹*Location² + -0.000000 *
 Time¹*Location¹*Operator¹ + -0.000000 * Time¹*Location¹*Flight #¹ + 0.000000 *
 Time¹*Location¹*Route¹ + -0.000000 * Time¹*Location¹*Type¹ + 0.000000 *
 Time¹*Location¹*Registration¹ + 0.000000 * Time¹*Location¹*cn/In¹ + -0.000000 *
 Time¹*Location¹*Aboard¹ + 0.000000 * Time¹*Location¹*Ground¹ + 0.000000 *
 Time¹*Operator² + -0.000000 * Time¹*Operator¹*Flight #¹ + 0.000000 *
 Time¹*Operator¹*Route¹ + -0.000000 * Time¹*Operator¹*Type¹ + -0.000000 *
 Time¹*Operator¹*Registration¹ + -0.000000 * Time¹*Operator¹*cn/In¹ + 0.000000 *
 Time¹*Operator¹*Aboard¹ + -0.000000 * Time¹*Operator¹*Ground¹ + 0.000000 *
 Time¹*Flight #² + 0.000000 * Time¹*Flight #¹*Route¹ + -0.000000 * Time¹*Flight
 #¹*Type¹ + -0.000000 * Time¹*Flight #¹*Registration¹ + 0.000000 * Time¹*Flight
 #¹*cn/In¹ + 0.000000 * Time¹*Flight #¹*Aboard¹ + 0.000000 * Time¹*Flight
 #¹*Ground¹ + -0.000000 * Time¹*Route² + 0.000000 * Time¹*Route¹*Type¹ + -
 0.000000 * Time¹*Route¹*Registration¹ + 0.000000 * Time¹*Route¹*cn/In¹ +
 0.000000 * Time¹*Route¹*Aboard¹ + -0.000001 * Time¹*Route¹*Ground¹ + -0.000000
 * Time¹*Type² + -0.000000 * Time¹*Type¹*Registration¹ + -0.000000 *
 Time¹*Type¹*cn/In¹ + -0.000000 * Time¹*Type¹*Aboard¹ + 0.000000 *
 Time¹*Type¹*Ground¹ + -0.000000 * Time¹*Registration² + -0.000000 *
 Time¹*Registration¹*cn/In¹ + -0.000000 * Time¹*Registration¹*Aboard¹ + 0.000000 *
 Time¹*Registration¹*Ground¹ + -0.000000 * Time¹*cn/In² + 0.000000 *
 Time¹*cn/In¹*Aboard¹ + 0.000001 * Time¹*cn/In¹*Ground¹ + -0.000002 *
 Time¹*Aboard² + -0.000003 * Time¹*Aboard¹*Ground¹ + -0.000001 *
 Time¹*Ground² + -0.000000 * Location³ + -0.000000 * Location²*Operator¹ + -
 0.000000 * Location²*Flight #¹ + 0.000000 * Location²*Route¹ + -0.000000 *
 Location²*Type¹ + -0.000000 * Location²*Registration¹ + -0.000000 *
 Location²*cn/In¹ + -0.000000 * Location²*Aboard¹ + 0.000000 * Location²*Ground¹ +
 0.000000 * Location¹*Operator² + 0.000000 * Location¹*Operator¹*Flight #¹ +
 0.000000 * Location¹*Operator¹*Route¹ + 0.000000 * Location¹*Operator¹*Type¹ + -
 0.000000 * Location¹*Operator¹*Registration¹ + 0.000000 *
 Location¹*Operator¹*cn/In¹ + 0.000000 * Location¹*Operator¹*Aboard¹ + 0.000001 *
 Location¹*Operator¹*Ground¹ + 0.000000 * Location¹*Flight #² + 0.000000 *
 Location¹*Flight #¹*Route¹ + 0.000000 * Location¹*Flight #¹*Type¹ + 0.000000 *
 Location¹*Flight #¹*Registration¹ + 0.000000 * Location¹*Flight #¹*cn/In¹ + 0.000000 *
 * Location¹*Flight #¹*Aboard¹ + -0.000000 * Location¹*Flight #¹*Ground¹ + 0.000000 *
 * Location¹*Route² + 0.000000 * Location¹*Route¹*Type¹ + 0.000000 *
 Location¹*Route¹*Registration¹ + -0.000000 * Location¹*Route¹*cn/In¹ + -0.000000 *
 Location¹*Route¹*Aboard¹ + 0.000000 * Location¹*Route¹*Ground¹ + -0.000000 *

Location¹*Type² + -0.000000 * Location¹*Type¹*Registration¹ + 0.000000 *
 Location¹*Type¹*cn/In¹ + 0.000000 * Location¹*Type¹*Aboard¹ + 0.000000 *
 Location¹*Type¹*Ground¹ + -0.000000 * Location¹*Registration² + 0.000000 *
 Location¹*Registration¹*cn/In¹ + -0.000000 * Location¹*Registration¹*Aboard¹ + -
 0.000000 * Location¹*Registration¹*Ground¹ + 0.000000 * Location¹*cn/In² + 0.000000 *
 * Location¹*cn/In¹*Aboard¹ + -0.000000 * Location¹*cn/In¹*Ground¹ + -0.000000 *
 Location¹*Aboard² + 0.000002 * Location¹*Aboard¹*Ground¹ + -0.000010 *
 Location¹*Ground² + -0.000000 * Operator³ + -0.000000 * Operator²*Flight #¹ +
 0.000000 * Operator²*Route¹ + -0.000000 * Operator²*Type¹ + -0.000000 *
 Operator²*Registration¹ + -0.000000 * Operator²*cn/In¹ + 0.000000 *
 Operator²*Aboard¹ + -0.000000 * Operator²*Ground¹ + -0.000000 * Operator¹*Flight
 #² + -0.000000 * Operator¹*Flight #¹*Route¹ + 0.000000 * Operator¹*Flight
 #¹*Type¹ + 0.000000 * Operator¹*Flight #¹*Registration¹ + -0.000000 *
 Operator¹*Flight #¹*cn/In¹ + -0.000000 * Operator¹*Flight #¹*Aboard¹ + 0.000002 *
 Operator¹*Flight #¹*Ground¹ + 0.000000 * Operator¹*Route² + 0.000000 *
 Operator¹*Route¹*Type¹ + 0.000000 * Operator¹*Route¹*Registration¹ + 0.000000 *
 Operator¹*Route¹*cn/In¹ + 0.000000 * Operator¹*Route¹*Aboard¹ + -0.000000 *
 Operator¹*Route¹*Ground¹ + -0.000000 * Operator¹*Type² + -0.000000 *
 Operator¹*Type¹*Registration¹ + 0.000000 * Operator¹*Type¹*cn/In¹ + 0.000000 *
 Operator¹*Type¹*Aboard¹ + 0.000000 * Operator¹*Type¹*Ground¹ + 0.000000 *
 Operator¹*Registration² + 0.000000 * Operator¹*Registration¹*cn/In¹ + -0.000000 *
 Operator¹*Registration¹*Aboard¹ + -0.000000 * Operator¹*cn/In² + 0.000000 * Operator¹*Aboard¹ + 0.000000 *
 Operator¹*cn/In¹*Ground¹ + -0.000000 * Operator¹*Aboard² + -0.000006 *
 Operator¹*Aboard¹*Ground¹ + 0.000031 * Operator¹*Ground² + -0.000000 * Flight #³
 + 0.000000 * Flight #²*Route¹ + 0.000000 * Flight #²*Type¹ + 0.000000 * Flight
 #²*Registration¹ + -0.000000 * Flight #²*cn/In¹ + 0.000000 * Flight #²*Aboard¹ + -
 0.000016 * Flight #²*Ground¹ + -0.000000 * Flight #¹*Route² + 0.000000 * Flight
 #¹*Route¹*Type¹ + -0.000000 * Flight #¹*Route¹*Registration¹ + 0.000000 * Flight
 #¹*Route¹*cn/In¹ + -0.000000 * Flight #¹*Route¹*Aboard¹ + -0.000003 * Flight
 #¹*Route¹*Ground¹ + -0.000000 * Flight #¹*Type² + -0.000000 * Flight
 #¹*Type¹*Registration¹ + -0.000000 * Flight #¹*Type¹*cn/In¹ + -0.000000 * Flight
 #¹*Type¹*Aboard¹ + 0.000003 * Flight #¹*Type¹*Ground¹ + -0.000000 * Flight
 #¹*Registration² + 0.000000 * Flight #¹*Registration¹*cn/In¹ + -0.000000 * Flight
 #¹*Registration¹*Aboard¹ + 0.000001 * Flight #¹*Registration¹*Ground¹ + 0.000000 *
 Flight #¹*cn/In² + 0.000000 * Flight #¹*cn/In¹*Aboard¹ + 0.000002 * Flight
 #¹*cn/In¹*Ground¹ + -0.000003 * Flight #¹*Aboard² + -0.000039 * Flight
 #¹*Aboard¹*Ground¹ + -0.000171 * Flight #¹*Ground² + -0.000000 * Route³ + -
 0.000000 * Route²*Type¹ + -0.000000 * Route²*Registration¹ + -0.000000 *
 Route²*cn/In¹ + -0.000000 * Route²*Aboard¹ + -0.000001 * Route²*Ground¹ +
 0.000000 * Route¹*Type² + -0.000000 * Route¹*Type¹*Registration¹ + -0.000000 *
 Route¹*Type¹*cn/In¹ + 0.000000 * Route¹*Type¹*Aboard¹ + -0.000000 *
 Route¹*Type¹*Ground¹ + 0.000000 * Route¹*Registration² + -0.000000 *
 Route¹*Registration¹*cn/In¹ + -0.000000 * Route¹*Registration¹*Aboard¹ + -0.000000 *
 * Route¹*Registration¹*Ground¹ + -0.000000 * Route¹*cn/In² + 0.000000 *
 Route¹*cn/In¹*Aboard¹ + -0.000000 * Route¹*cn/In¹*Ground¹ + 0.000000 *

Route¹*Aboard² + -0.000006 * Route¹*Aboard¹*Ground¹ + 0.000017 *
 Route¹*Ground² + 0.000000 * Type³ + 0.000000 * Type²*Registration¹ + 0.000000 *
 Type²*cn/In¹ + -0.000000 * Type²*Aboard¹ + 0.000000 * Type²*Ground¹ + -0.000000 *
 * Type¹*Registration² + -0.000000 * Type¹*Registration¹*cn/In¹ + 0.000000 *
 Type¹*Registration¹*Aboard¹ + 0.000000 * Type¹*Registration¹*Ground¹ + 0.000000
 * Type¹*cn/In² + -0.000000 * Type¹*cn/In¹*Aboard¹ + -0.000000 *
 Type¹*cn/In¹*Ground¹ + -0.000000 * Type¹*Aboard² + 0.000001 *
 Type¹*Aboard¹*Ground¹ + 0.000009 * Type¹*Ground² + 0.000000 * Registration³ +
 0.000000 * Registration²*cn/In¹ + 0.000000 * Registration²*Aboard¹ + -0.000000 *
 Registration²*Ground¹ + 0.000000 * Registration¹*cn/In² + -0.000000 *
 Registration¹*cn/In¹*Aboard¹ + 0.000000 * Registration¹*cn/In¹*Ground¹ + 0.000000
 * Registration¹*Aboard² + -0.000003 * Registration¹*Aboard¹*Ground¹ + 0.000009 *
 Registration¹*Ground² + -0.000000 * cn/In³ + -0.000000 * cn/In²*Aboard¹ + 0.000000 *
 cn/In²*Ground¹ + -0.000000 * cn/In¹*Aboard² + 0.000001 *
 cn/In¹*Aboard¹*Ground¹ + -0.000003 * cn/In¹*Ground² + -0.000011 * Aboard³ +
 0.000292 * Aboard²*Ground¹ + -0.000441 * Aboard¹*Ground² + -0.000555 * Ground³

Accuracy: 0.6767776772614505

Equation-2:

coefficient [-1.04575603e-02 -6.52319528e-03 -1.61030219e-02
 -3.02375922e-02 -4.98509394e-03 -1.29437448e-02 4.39581299e-03
 5.34991710e-03 4.23006790e-01 -4.04124897e+00 -1.06842399e-06
 -9.37269630e-06 9.42060669e-07 -6.96901457e-08 2.17025772e-05
 1.00159952e-06 2.39069051e-06 1.32683032e-06 -1.69338877e-06
 3.56419188e-05 1.56181179e-03 2.78776938e-05 9.56245083e-07
 1.23549605e-05 -8.06733537e-06 -2.13223329e-07 3.66440954e-06
 7.43680918e-06 -5.32812054e-06 9.12159532e-04 -4.47603921e-03
 4.21453597e-06 2.87788291e-07 -9.99512119e-06 -2.15281279e-06
 -1.94846753e-06 4.09846469e-07 -5.81739121e-07 3.89824227e-04
 -2.72504401e-03 8.45439963e-06 5.06153686e-05 -5.33530661e-06
 2.26000000e-06 -1.27323476e-06 -9.94679452e-07 -2.93524414e-04

1.67792859e-03 2.42297601e-05 8.21568174e-07 -3.32072207e-06
-7.33624150e-06 -1.07697630e-05 4.42539634e-04 2.44933263e-02
5.99812600e-06 -3.94767142e-06 1.09414846e-07 1.20609998e-06
-1.00369897e-04 -1.57623422e-04 3.16441279e-06 3.82656156e-06
-2.03278396e-07 2.31593383e-04 1.96095083e-04 -3.12299046e-06
-1.06322080e-06 -2.45812447e-04 1.49353218e-03 1.22143789e-06
-3.59907679e-05 -1.47260648e-03 2.41155867e-03 -2.16563271e-02
6.80583067e-02 1.29844056e-10 7.29045334e-10 -1.26711685e-10
1.23824393e-10 -5.62894118e-10 -6.48820182e-11 -1.55540949e-10
2.58341473e-11 1.25584628e-10 4.56457854e-09 1.11461953e-07
7.51613535e-10 -1.15400244e-10 1.25904213e-09 3.19730834e-09
6.83852860e-10 3.29105133e-10 -5.93870119e-11 4.52787240e-10
-8.76289498e-08 1.37591460e-07 1.26897444e-10 -5.09826595e-11
6.08403734e-10 -2.50660611e-10 -7.47260383e-11 2.32271212e-11
-1.62700793e-10 -7.39192661e-09 2.82776620e-08 2.75243279e-10
-2.80398867e-09 -1.73678618e-10 -2.05755105e-10 -1.79988707e-10
2.77270331e-10 3.26208646e-08 -6.29231526e-09 -1.39921671e-08
1.12750617e-09 -2.16176460e-09 -5.65703966e-10 -4.64539130e-10
-1.28997911e-07 -3.21251000e-06 -2.88278776e-10 -1.27267850e-10
-4.23025122e-11 -3.71057757e-11 2.23950187e-08 1.40280424e-08
1.99498322e-10 -1.40345810e-10 1.58914836e-10 -1.37147872e-08
4.71325506e-08 -3.81740087e-11 -1.28074027e-11 -1.70922871e-08
-1.84540232e-07 1.27599469e-10 1.94481603e-08 2.24571506e-08

2.55246759e-07 -7.37109423e-07 1.51654454e-05 -4.21403452e-08
3.79714179e-09 1.55166348e-10 3.14744136e-08 -2.04155361e-09
1.29132286e-08 -4.74709445e-10 3.46039413e-09 -6.22857610e-07
4.14173269e-06 -3.67748591e-10 -3.97788826e-10 -2.71513451e-09
9.92035657e-11 -5.65052030e-10 -3.29158262e-10 2.92525279e-10
-4.09396482e-08 -6.11880481e-07 7.12021713e-10 -2.15316207e-08
3.95883264e-10 -1.01060796e-09 -1.09068253e-09 2.16250388e-10
3.16260285e-09 -6.18247669e-08 -1.36039791e-08 6.74494481e-09
-4.68845597e-09 -4.26029874e-10 2.33683868e-09 2.68686127e-07
4.19575559e-07 -1.33073477e-09 6.69492758e-10 -5.79861444e-10
6.01358956e-10 -1.11234854e-08 -2.51579640e-08 -2.46413852e-09
-1.77411677e-09 -1.10893651e-09 -7.61101257e-08 -5.00659393e-07
-2.49960109e-11 -2.13024224e-10 -2.15316749e-08 1.88745575e-07
-4.40620382e-10 7.04669134e-08 3.22190964e-07 -1.17570848e-06
1.32049814e-05 -1.83762971e-05 -3.22991561e-10 -5.04328740e-10
-1.09932271e-09 2.56917954e-10 -4.00825768e-10 -6.58941651e-11
-1.04178425e-10 -6.48040933e-08 1.81244409e-08 3.10893806e-10
-7.12958054e-10 1.79719789e-10 4.94019987e-10 -5.40400170e-11
4.36398358e-10 -1.51502911e-09 1.19566406e-06 1.32851225e-09
9.04729453e-10 4.63653871e-09 1.52006026e-09 1.08541030e-09
7.29516929e-08 1.34496335e-06 2.24515980e-10 1.98645165e-10
-5.64896047e-12 -4.44216244e-11 -1.62982009e-08 8.17999976e-08
-8.81305185e-12 -1.44914440e-10 1.05788797e-10 1.32928861e-08

2.61919763e-07 -8.37425979e-11 1.05638501e-11 -1.58674273e-08
-6.35594694e-08 3.78066632e-11 -4.16724656e-09 -8.95023778e-08
3.41557719e-08 2.70411913e-06 3.69532161e-06 -1.66527725e-09
-2.73241746e-09 3.11081266e-10 -6.36115275e-10 -2.52735003e-10
-4.82622360e-10 2.57989333e-08 -9.92305787e-07 -2.40721985e-08
-1.91037178e-09 1.02163512e-09 -6.88661042e-10 -1.22833392e-09
1.65232674e-09 -2.21385975e-06 8.90352606e-10 7.81083157e-10
3.56506050e-10 -1.18901588e-11 1.15689530e-08 -2.08668498e-07
-8.20913546e-10 -4.27523156e-10 -1.85441017e-10 3.15172104e-08
1.74066446e-07 4.68417794e-10 3.35412379e-10 1.02479260e-08
1.53748231e-07 1.19481633e-10 3.65466841e-08 -2.65450380e-07
-4.60934801e-07 -8.75062251e-06 3.22122183e-05 -6.18383180e-09
2.87816629e-09 1.72160223e-08 6.78864992e-09 1.45814045e-09
-3.45010765e-07 -2.27479401e-05 -3.12258962e-09 2.62486064e-09
-1.66798176e-09 6.64674037e-10 1.23300755e-08 3.37063707e-06
-4.64308603e-09 -2.55007666e-11 -2.93534037e-09 -1.42906505e-07
3.21599922e-07 2.14242025e-10 1.49925061e-09 2.30446290e-08
-2.05053154e-06 8.18762195e-10 2.21614962e-07 2.82106078e-06
-4.16235713e-06 1.60792906e-05 -1.77522129e-04 -5.36747548e-10
-5.04176423e-11 -3.43631699e-11 -2.81442068e-10 -3.23034523e-09
-5.24172258e-07 2.56715787e-10 -1.61919080e-10 2.02315517e-11
2.30912345e-08 -2.06544660e-07 3.54294006e-10 -1.47591532e-10
-6.01824669e-09 -5.78071344e-08 -1.15805058e-10 2.06010522e-09

6.19499553e-08 4.41717041e-07 -3.19370396e-06 -5.90603589e-06
 3.50688558e-11 2.73447551e-10 7.32607253e-10 -4.92030031e-08
 1.50845586e-07 -3.21589570e-10 -1.07255407e-10 1.94469168e-08
 -6.58309370e-09 2.87570646e-10 -1.47250195e-08 -5.47748831e-07
 -3.50131681e-07 -2.86514047e-07 2.68494672e-05 1.89739374e-10
 1.24859807e-10 5.77779813e-08 3.16061445e-08 -1.18892164e-11
 -1.48553130e-08 6.03323077e-08 1.94836791e-07 -1.70866103e-06
 8.40222940e-06 -2.20677498e-10 -4.44962320e-08 5.66511468e-08
 -2.04080741e-07 3.28255649e-06 -1.83597438e-05 -9.70921947e-06
 4.62829538e-04 -1.76109502e-03 2.67193596e-04]

intercept 20.03844429829377

Equation: Fatalities= 20.038444 + -0.010458 * Time + -0.006523 * Location + -0.016103 * Operator + -0.030238 * Flight # + -0.004985 * Route + -0.012944 * Type + 0.004396 * Registration + 0.005350 * cn/In + 0.423007 * Aboard + -4.041249 * Ground + -0.000001 * Date^2 + -0.000009 * Date^1*Time^1 + 0.000001 * Date^1*Location^1 + -0.000000 * Date^1*Operator^1 + 0.000022 * Date^1*Flight #^1 + 0.000001 * Date^1*Route^1 + 0.000002 * Date^1>Type^1 + 0.000001 * Date^1*Registration^1 + -0.000002 * Date^1*cn/In^1 + 0.000036 * Date^1*Aboard^1 + 0.001562 * Date^1*Ground^1 + 0.000028 * Time^2 + 0.000001 * Time^1*Location^1 + 0.000012 * Time^1*Operator^1 + -0.000008 * Time^1*Flight #^1 + -0.000000 * Time^1*Route^1 + 0.000004 * Time^1>Type^1 + 0.000007 * Time^1*Registration^1 + -0.000005 * Time^1*cn/In^1 + 0.000912 * Time^1*Aboard^1 + -0.004476 * Time^1*Ground^1 + 0.000004 * Location^2 + 0.000000 * Location^1*Operator^1 + -0.000010 * Location^1*Flight #^1 + -0.000002 * Location^1*Route^1 + -0.000002 * Location^1>Type^1 + 0.000000 * Location^1*Registration^1 + -0.000001 * Location^1*cn/In^1 + 0.000390 * Location^1*Aboard^1 + -0.002725 * Location^1*Ground^1 + 0.000008 * Operator^2 + 0.000051 * Operator^1*Flight #^1 + -0.000005 * Operator^1*Route^1 + 0.000002 * Operator^1>Type^1 + -0.000001 * Operator^1*Registration^1 + -0.000001 * Operator^1*cn/In^1 + -0.000294 * Operator^1*Aboard^1 + 0.001678 * Operator^1*Ground^1 + 0.000024 * Flight #^2 + 0.000001 * Flight #^1*Route^1 + -0.000003 * Flight #^1>Type^1 + -0.000007 * Flight #^1*Registration^1 + -0.000011 * Flight #^1*cn/In^1 + 0.000443 * Flight #^1*Aboard^1 + 0.024493 * Flight #^1*Ground^1 + 0.000006 * Route^2 + -0.000004 * Route^1>Type^1 + 0.000000 * Route^1*Registration^1 + 0.000001 * Route^1*cn/In^1 + 0.000100 * Route^1*Aboard^1 + -0.000158 * Route^1*Ground^1 + 0.000003 * Type^2 + 0.000004 * Type^1*Registration^1 + -0.000000 * Type^1*cn/In^1 + 0.000232 * Type^1*Aboard^1 + 0.000196 * Type^1*Ground^1 + -0.000003 * Registration^2 + -0.000001 *

Registration¹*cn/In¹ + -0.000246 * Registration¹*Aboard¹ + 0.001494 *
 Registration¹*Ground¹ + 0.000001 * cn/In² + -0.000036 * cn/In¹*Aboard¹ + -0.001473 *
 cn/In¹*Ground¹ + 0.002412 * Aboard² + -0.021656 * Aboard¹*Ground¹ + 0.068058 *
 Ground² + 0.000000 * Date³ + 0.000000 * Date²*Time¹ + -0.000000 * Date²*Location¹
 + 0.000000 * Date²*Operator¹ + -0.000000 * Date²*Flight #¹ + -0.000000 *
 Date²*Route¹ + -0.000000 * Date²*Type¹ + 0.000000 * Date²*Registration¹ +
 0.000000 * Date²*cn/In¹ + 0.000000 * Date²*Aboard¹ + 0.000000 * Date²*Ground¹ +
 0.000000 * Date¹*Time² + -0.000000 * Date¹*Time¹*Location¹ + 0.000000 *
 Date¹*Time¹*Operator¹ + 0.000000 * Date¹*Time¹*Flight #¹ + 0.000000 *
 Date¹*Time¹*Route¹ + 0.000000 * Date¹*Time¹*Type¹ + -0.000000 *
 Date¹*Time¹*Registration¹ + 0.000000 * Date¹*Time¹*cn/In¹ + -0.000000 *
 Date¹*Time¹*Aboard¹ + 0.000000 * Date¹*Time¹*Ground¹ + 0.000000 *
 Date¹*Location² + -0.000000 * Date¹*Location¹*Operator¹ + 0.000000 *
 Date¹*Location¹*Flight #¹ + -0.000000 * Date¹*Location¹*Route¹ + -0.000000 *
 Date¹*Location¹*Type¹ + 0.000000 * Date¹*Location¹*Registration¹ + -0.000000 *
 Date¹*Location¹*cn/In¹ + -0.000000 * Date¹*Location¹*Aboard¹ + 0.000000 *
 Date¹*Location¹*Ground¹ + 0.000000 * Date¹*Operator² + -0.000000 *
 Date¹*Operator¹*Flight #¹ + -0.000000 * Date¹*Operator¹*Route¹ + -0.000000 *
 Date¹*Operator¹*Type¹ + -0.000000 * Date¹*Operator¹*Registration¹ + 0.000000 *
 Date¹*Operator¹*cn/In¹ + 0.000000 * Date¹*Operator¹*Aboard¹ + -0.000000 *
 Date¹*Operator¹*Ground¹ + -0.000000 * Date¹*Flight #² + 0.000000 * Date¹*Flight
 #¹*Route¹ + -0.000000 * Date¹*Flight #¹*Type¹ + -0.000000 * Date¹*Flight
 #¹*Registration¹ + -0.000000 * Date¹*Flight #¹*cn/In¹ + -0.000000 * Date¹*Flight
 #¹*Aboard¹ + -0.000003 * Date¹*Flight #¹*Ground¹ + -0.000000 * Date¹*Route² +
 -0.000000 * Date¹*Route¹*Type¹ + -0.000000 * Date¹*Route¹*Registration¹ + -
 0.000000 * Date¹*Route¹*cn/In¹ + 0.000000 * Date¹*Route¹*Aboard¹ + 0.000000 *
 Date¹*Route¹*Ground¹ + 0.000000 * Date¹*Type² + -0.000000 *
 Date¹*Type¹*Registration¹ + 0.000000 * Date¹*Type¹*cn/In¹ + -0.000000 *
 Date¹*Type¹*Aboard¹ + 0.000000 * Date¹*Type¹*Ground¹ + -0.000000 *
 Date¹*Registration² + -0.000000 * Date¹*Registration¹*cn/In¹ + -0.000000 *
 Date¹*Registration¹*Aboard¹ + -0.000000 * Date¹*Registration¹*Ground¹ + 0.000000
 * Date¹*cn/In² + 0.000000 * Date¹*cn/In¹*Aboard¹ + 0.000000 *
 Date¹*cn/In¹*Ground¹ + 0.000000 * Date¹*Aboard² + -0.000001 *
 Date¹*Aboard¹*Ground¹ + 0.000015 * Date¹*Ground² + -0.000000 * Time³ +
 0.000000 * Time²*Location¹ + 0.000000 * Time²*Operator¹ + 0.000000 * Time²*Flight
 #¹ + -0.000000 * Time²*Route¹ + 0.000000 * Time²*Type¹ + -0.000000 *
 Time²*Registration¹ + 0.000000 * Time²*cn/In¹ + -0.000001 * Time²*Aboard¹ +
 0.000004 * Time²*Ground¹ + -0.000000 * Time¹*Location² + -0.000000 *
 Time¹*Location¹*Operator¹ + -0.000000 * Time¹*Location¹*Flight #¹ + 0.000000 *
 Time¹*Location¹*Route¹ + -0.000000 * Time¹*Location¹*Type¹ + -0.000000 *
 Time¹*Location¹*Registration¹ + 0.000000 * Time¹*Location¹*cn/In¹ + -0.000000 *
 Time¹*Location¹*Aboard¹ + -0.000001 * Time¹*Location¹*Ground¹ + 0.000000 *
 Time¹*Operator² + -0.000000 * Time¹*Operator¹*Flight #¹ + 0.000000 *
 Time¹*Operator¹*Route¹ + -0.000000 * Time¹*Operator¹*Type¹ + -0.000000 *
 Time¹*Operator¹*Registration¹ + 0.000000 * Time¹*Operator¹*cn/In¹ + 0.000000 *
 Time¹*Operator¹*Aboard¹ + -0.000000 * Time¹*Operator¹*Ground¹ + -0.000000 *

Time^1*Flight #^2 + 0.000000 * Time^1*Flight #^1*Route^1 + -0.000000 * Time^1*Flight
 #^1*Type^1 + -0.000000 * Time^1*Flight #^1*Registration^1 + 0.000000 * Time^1*Flight
 #^1*cn/In^1 + 0.000000 * Time^1*Flight #^1*Aboard^1 + 0.000000 * Time^1*Flight
 #^1*Ground^1 + -0.000000 * Time^1*Route^2 + 0.000000 * Time^1*Route^1*Type^1 + -
 0.000000 * Time^1*Route^1*Registration^1 + 0.000000 * Time^1*Route^1*cn/In^1 + -
 0.000000 * Time^1*Route^1*Aboard^1 + -0.000000 * Time^1*Route^1*Ground^1 + -0.000000
 * Time^1*Type^2 + -0.000000 * Time^1*Type^1*Registration^1 + -0.000000 *
 Time^1*Type^1*cn/In^1 + -0.000000 * Time^1*Type^1*Aboard^1 + -0.000001 *
 Time^1*Type^1*Ground^1 + -0.000000 * Time^1*Registration^2 + -0.000000 *
 Time^1*Registration^1*cn/In^1 + -0.000000 * Time^1*Registration^1*Aboard^1 + 0.000000 *
 Time^1*Registration^1*Ground^1 + -0.000000 * Time^1*cn/In^2 + 0.000000 *
 Time^1*cn/In^1*Aboard^1 + 0.000000 * Time^1*cn/In^1*Ground^1 + -0.000001 *
 Time^1*Aboard^2 + 0.000013 * Time^1*Aboard^1*Ground^1 + -0.000018 *
 Time^1*Ground^2 + -0.000000 * Location^3 + -0.000000 * Location^2*Operator^1 + -
 0.000000 * Location^2*Flight #^1 + 0.000000 * Location^2*Route^1 + -0.000000 *
 Location^2*Type^1 + -0.000000 * Location^2*Registration^1 + -0.000000 *
 Location^2*cn/In^1 + -0.000000 * Location^2*Aboard^1 + 0.000000 * Location^2*Ground^1 +
 0.000000 * Location^1*Operator^2 + -0.000000 * Location^1*Operator^1*Flight #^1 +
 0.000000 * Location^1*Operator^1*Route^1 + 0.000000 * Location^1*Operator^1*Type^1 + -
 0.000000 * Location^1*Operator^1*Registration^1 + 0.000000 *
 Location^1*Operator^1*cn/In^1 + -0.000000 * Location^1*Operator^1*Aboard^1 + 0.000001 *
 Location^1*Operator^1*Ground^1 + 0.000000 * Location^1*Flight #^2 + 0.000000 *
 Location^1*Flight #^1*Route^1 + 0.000000 * Location^1*Flight #^1*Type^1 + 0.000000 *
 Location^1*Flight #^1*Registration^1 + 0.000000 * Location^1*Flight #^1*cn/In^1 + 0.000000
 * Location^1*Flight #^1*Aboard^1 + 0.000001 * Location^1*Flight #^1*Ground^1 + 0.000000
 * Location^1*Route^2 + 0.000000 * Location^1*Route^1*Type^1 + -0.000000 *
 Location^1*Route^1*Registration^1 + -0.000000 * Location^1*Route^1*cn/In^1 + -0.000000 *
 Location^1*Route^1*Aboard^1 + 0.000000 * Location^1*Route^1*Ground^1 + -0.000000 *
 Location^1*Type^2 + -0.000000 * Location^1*Type^1*Registration^1 + 0.000000 *
 Location^1*Type^1*cn/In^1 + 0.000000 * Location^1*Type^1*Aboard^1 + 0.000000 *
 Location^1*Type^1*Ground^1 + -0.000000 * Location^1*Registration^2 + 0.000000 *
 Location^1*Registration^1*cn/In^1 + -0.000000 * Location^1*Registration^1*Aboard^1 + -
 0.000000 * Location^1*Registration^1*Ground^1 + 0.000000 * Location^1*cn/In^2 + -
 0.000000 * Location^1*cn/In^1*Aboard^1 + -0.000000 * Location^1*cn/In^1*Ground^1 +
 0.000000 * Location^1*Aboard^2 + 0.000003 * Location^1*Aboard^1*Ground^1 + 0.000004 *
 Location^1*Ground^2 + -0.000000 * Operator^3 + -0.000000 * Operator^2*Flight #^1 +
 0.000000 * Operator^2*Route^1 + -0.000000 * Operator^2*Type^1 + -0.000000 *
 Operator^2*Registration^1 + -0.000000 * Operator^2*cn/In^1 + 0.000000 *
 Operator^2*Aboard^1 + -0.000001 * Operator^2*Ground^1 + -0.000000 * Operator^1*Flight
 #^2 + -0.000000 * Operator^1*Flight #^1*Route^1 + 0.000000 * Operator^1*Flight
 #^1*Type^1 + -0.000000 * Operator^1*Flight #^1*Registration^1 + -0.000000 *
 Operator^1*Flight #^1*cn/In^1 + 0.000000 * Operator^1*Flight #^1*Aboard^1 + -0.000002 *
 Operator^1*Flight #^1*Ground^1 + 0.000000 * Operator^1*Route^2 + 0.000000 *
 Operator^1*Route^1*Type^1 + 0.000000 * Operator^1*Route^1*Registration^1 + -0.000000 *
 Operator^1*Route^1*cn/In^1 + 0.000000 * Operator^1*Route^1*Aboard^1 + -0.000000 *
 Operator^1*Route^1*Ground^1 + -0.000000 * Operator^1*Type^2 + -0.000000 *

Operator^1*Type^1*Registration^1 + -0.000000 * Operator^1*Type^1*cn/In^1 + 0.000000 *
 Operator^1*Type^1*Aboard^1 + 0.000000 * Operator^1*Type^1*Ground^1 + 0.000000 *
 Operator^1*Registration^2 + 0.000000 * Operator^1*Registration^1*cn/In^1 + 0.000000 *
 Operator^1*Registration^1*Aboard^1 + 0.000000 * Operator^1*Registration^1*Ground^1 +
 0.000000 * Operator^1*cn/In^2 + 0.000000 * Operator^1*cn/In^1*Aboard^1 + -0.000000 *
 Operator^1*cn/In^1*Ground^1 + -0.000000 * Operator^1*Aboard^2 + -0.000009 *
 Operator^1*Aboard^1*Ground^1 + 0.000032 * Operator^1*Ground^2 + -0.000000 * Flight #^3
 + 0.000000 * Flight #^2*Route^1 + 0.000000 * Flight #^2*Type^1 + 0.000000 * Flight
 #^2*Registration^1 + 0.000000 * Flight #^2*cn/In^1 + -0.000000 * Flight #^2*Aboard^1 + -
 0.000023 * Flight #^2*Ground^1 + -0.000000 * Flight #^1*Route^2 + 0.000000 * Flight
 #^1*Route^1*Type^1 + -0.000000 * Flight #^1*Route^1*Registration^1 + 0.000000 * Flight
 #^1*Route^1*cn/In^1 + 0.000000 * Flight #^1*Route^1*Aboard^1 + 0.000003 * Flight
 #^1*Route^1*Ground^1 + -0.000000 * Flight #^1*Type^2 + -0.000000 * Flight
 #^1*Type^1*Registration^1 + -0.000000 * Flight #^1*Type^1*cn/In^1 + -0.000000 * Flight
 #^1*Type^1*Aboard^1 + 0.000000 * Flight #^1*Type^1*Ground^1 + 0.000000 * Flight
 #^1*Registration^2 + 0.000000 * Flight #^1*Registration^1*cn/In^1 + 0.000000 * Flight
 #^1*Registration^1*Aboard^1 + -0.000002 * Flight #^1*Registration^1*Ground^1 + 0.000000 *
 Flight #^1*cn/In^2 + 0.000000 * Flight #^1*cn/In^1*Aboard^1 + 0.000003 * Flight
 #^1*cn/In^1*Ground^1 + -0.000004 * Flight #^1*Aboard^2 + 0.000016 * Flight
 #^1*Aboard^1*Ground^1 + -0.000178 * Flight #^1*Ground^2 + -0.000000 * Route^3 + -
 0.000000 * Route^2*Type^1 + -0.000000 * Route^2*Registration^1 + -0.000000 *
 Route^2*cn/In^1 + -0.000000 * Route^2*Aboard^1 + -0.000001 * Route^2*Ground^1 +
 0.000000 * Route^1*Type^2 + -0.000000 * Route^1*Type^1*Registration^1 + 0.000000 *
 Route^1*Type^1*cn/In^1 + 0.000000 * Route^1*Type^1*Aboard^1 + -0.000000 *
 Route^1*Type^1*Ground^1 + 0.000000 * Route^1*Registration^2 + -0.000000 *
 Route^1*Registration^1*cn/In^1 + -0.000000 * Route^1*Registration^1*Aboard^1 + -0.000000 *
 * Route^1*Registration^1*Ground^1 + -0.000000 * Route^1*cn/In^2 + 0.000000 *
 Route^1*cn/In^1*Aboard^1 + 0.000000 * Route^1*cn/In^1*Ground^1 + 0.000000 *
 Route^1*Aboard^2 + -0.000003 * Route^1*Aboard^1*Ground^1 + -0.000006 *
 Route^1*Ground^2 + 0.000000 * Type^3 + 0.000000 * Type^2*Registration^1 + 0.000000 *
 Type^2*cn/In^1 + -0.000000 * Type^2*Aboard^1 + 0.000000 * Type^2*Ground^1 + -0.000000
 * Type^1*Registration^2 + -0.000000 * Type^1*Registration^1*cn/In^1 + 0.000000 *
 Type^1*Registration^1*Aboard^1 + -0.000000 * Type^1*Registration^1*Ground^1 + 0.000000
 * Type^1*cn/In^2 + -0.000000 * Type^1*cn/In^1*Aboard^1 + -0.000001 *
 Type^1*cn/In^1*Ground^1 + -0.000000 * Type^1*Aboard^2 + -0.000000 *
 Type^1*Aboard^1*Ground^1 + 0.000027 * Type^1*Ground^2 + 0.000000 * Registration^3 +
 0.000000 * Registration^2*cn/In^1 + 0.000000 * Registration^2*Aboard^1 + 0.000000 *
 Registration^2*Ground^1 + -0.000000 * Registration^1*cn/In^2 + -0.000000 *
 Registration^1*cn/In^1*Aboard^1 + 0.000000 * Registration^1*cn/In^1*Ground^1 + 0.000000
 * Registration^1*Aboard^2 + -0.000002 * Registration^1*Aboard^1*Ground^1 + 0.000008 *
 Registration^1*Ground^2 + -0.000000 * cn/In^3 + -0.000000 * cn/In^2*Aboard^1 + 0.000000 *
 cn/In^2*Ground^1 + -0.000000 * cn/In^1*Aboard^2 + 0.000003 *
 cn/In^1*Aboard^1*Ground^1 + -0.000018 * cn/In^1*Ground^2 + -0.000010 * Aboard^3 +
 0.000463 * Aboard^2*Ground^1 + -0.001761 * Aboard^1*Ground^2 + 0.000267 * Ground^3

Accuracy: 0.7258412782744993

DEGREE-4:

coefficient [4.45460567e-03 -1.00725752e-01 2.83759210e-02 ... -2.80998425e-06

-8.36572930e-07 -7.20816752e-08]

intercept -119.40843533057127

Equation: Fatalities= -119.408435331 + -0.100725752 * Time + 0.028375921 * Location + 0.114603935 * Operator + -1.029783126 * Flight # + -0.012386358 * Route + 0.217428098 * Type + 0.000704492 * Registration + -0.009861171 * cn/In + 6.845790530 * Aboard + 0.038263134 * Ground + 0.000008445 * Date^2 + 0.000025464 * Date^1*Time^1 + 0.000001686 * Date^1*Location^1 + 0.000021381 * Date^1*Operator^1 + -0.000009176 * Date^1*Flight #^1 + -0.000025206 * Date^1*Route^1 + -0.000033831 * Date^1>Type^1 + -0.000005537 * Date^1*Registration^1 + 0.000002024 * Date^1*cn/In^1 + -0.000016228 * Date^1*Aboard^1 + 0.005917028 * Date^1*Ground^1 + 0.000129743 * Time^2 + -0.000062053 * Time^1*Location^1 + 0.000013198 * Time^1*Operator^1 + 0.001103895 * Time^1*Flight #^1 + 0.000068064 * Time^1*Route^1 + -0.000076374 * Time^1>Type^1 + -0.000029384 * Time^1*Registration^1 + 0.000065650 * Time^1*cn/In^1 + -0.000078488 * Time^1*Aboard^1 + 0.006441746 * Time^1*Ground^1 + 0.000006368 * Location^2 + -0.000013199 * Location^1*Operator^1 + 0.000000332 * Location^1*Flight #^1 + 0.000011615 * Location^1*Route^1 + 0.000000640 * Location^1>Type^1 + -0.000018205 * Location^1*Registration^1 + 0.000010674 * Location^1*cn/In^1 + -0.000962790 * Location^1*Aboard^1 + 0.019342284 * Location^1*Ground^1 + -0.000022809 * Operator^2 + -0.000126587 * Operator^1*Flight #^1 + 0.000022735 * Operator^1*Route^1 + -0.000060624 * Operator^1>Type^1 + -0.000009284 * Operator^1*Registration^1 + -0.000040026 * Operator^1*cn/In^1 + -0.001529610 * Operator^1*Aboard^1 + -0.010692208 * Operator^1*Ground^1 + 0.002944916 * Flight #^2 + 0.000192963 * Flight #^1*Route^1 + -0.000083552 * Flight #^1>Type^1 + 0.000252295 * Flight #^1*Registration^1 + 0.000101206 * Flight #^1*cn/In^1 + -0.008172125 * Flight #^1*Aboard^1 + 0.031880956 * Flight #^1*Ground^1 + -0.000018917 * Route^2 + -0.000014995 * Route^1>Type^1 + 0.000018979 * Route^1*Registration^1 + 0.000008372 * Route^1*cn/In^1 + -0.001427590 * Route^1*Aboard^1 + -0.010815937 * Route^1*Ground^1 + -0.000063673 * Type^2 + -0.000000569 * Type^1*Registration^1 + -0.000024698 * Type^1*cn/In^1 + -0.003415567 * Type^1*Aboard^1 + -0.018949854 * Type^1*Ground^1 + -0.000005937 * Registration^2 + 0.000005328 * Registration^1*cn/In^1 + -0.001025512 * Registration^1*Aboard^1 + 0.001801381 * Registration^1*Ground^1 + 0.000001829 * cn/In^2 + 0.000526185 * cn/In^1*Aboard^1 + -0.008031344 * cn/In^1*Ground^1 + -0.024788246 * Aboard^2 + 0.005817056 * Aboard^1*Ground^1 + -0.020460345 * Ground^2 + -0.000000001 * Date^3 + -0.000000006 * Date^2*Time^1 + -0.000000000 * Date^2*Location^1 + -0.000000003 * Date^2*Operator^1 + -0.000000011 * Date^2*Flight #^1 + 0.000000002 * Date^2*Route^1 + 0.000000002 * Date^2>Type^1 + 0.000000001 * Date^2*Registration^1 + -0.000000001 * Date^2*cn/In^1 + -0.000000189 * Date^2*Aboard^1 + 0.014136492 * Date^2*Ground^1 + 0.000000021 * Date^1*Time^2 + -0.000000004 * Date^1*Time^1*Location^1 + -0.000000007

$$\begin{aligned}
& * \text{Date}^1 * \text{Time}^1 * \text{Operator}^1 + -0.000000080 * \text{Date}^1 * \text{Time}^1 * \text{Flight} \#^1 + 0.000000005 * \\
& \text{Date}^1 * \text{Time}^1 * \text{Route}^1 + 0.000000005 * \text{Date}^1 * \text{Time}^1 * \text{Type}^1 + -0.000000002 * \\
& \text{Date}^1 * \text{Time}^1 * \text{Registration}^1 + 0.000000006 * \text{Date}^1 * \text{Time}^1 * \text{cn/In}^1 + -0.000000548 * \\
& \text{Date}^1 * \text{Time}^1 * \text{Aboard}^1 + 0.007110131 * \text{Date}^1 * \text{Time}^1 * \text{Ground}^1 + 0.000000001 * \\
& \text{Date}^1 * \text{Location}^2 + 0.000000001 * \text{Date}^1 * \text{Location}^1 * \text{Operator}^1 + -0.000000008 * \\
& \text{Date}^1 * \text{Location}^1 * \text{Flight} \#^1 + -0.000000003 * \text{Date}^1 * \text{Location}^1 * \text{Route}^1 + 0.000000000 * \\
& \text{Date}^1 * \text{Location}^1 * \text{Type}^1 + 0.000000000 * \text{Date}^1 * \text{Location}^1 * \text{Registration}^1 + - \\
& 0.000000001 * \text{Date}^1 * \text{Location}^1 * \text{cn/In}^1 + 0.000000148 * \text{Date}^1 * \text{Location}^1 * \text{Aboard}^1 + - \\
& 0.011250150 * \text{Date}^1 * \text{Location}^1 * \text{Ground}^1 + -0.000000004 * \text{Date}^1 * \text{Operator}^2 + - \\
& 0.000000001 * \text{Date}^1 * \text{Operator}^1 * \text{Flight} \#^1 + -0.000000001 * \text{Date}^1 * \text{Operator}^1 * \text{Route}^1 + \\
& 0.000000002 * \text{Date}^1 * \text{Operator}^1 * \text{Type}^1 + -0.000000002 * \\
& \text{Date}^1 * \text{Operator}^1 * \text{Registration}^1 + -0.000000001 * \text{Date}^1 * \text{Operator}^1 * \text{cn/In}^1 + - \\
& 0.000000170 * \text{Date}^1 * \text{Operator}^1 * \text{Aboard}^1 + -0.008681070 * \text{Date}^1 * \text{Operator}^1 * \text{Ground}^1 + \\
& 0.000000007 * \text{Date}^1 * \text{Flight} \#^2 + 0.000000029 * \text{Date}^1 * \text{Flight} \#^1 * \text{Route}^1 + \\
& 0.000000054 * \text{Date}^1 * \text{Flight} \#^1 * \text{Type}^1 + 0.000000001 * \text{Date}^1 * \text{Flight} \#^1 * \text{Registration}^1 + \\
& -0.000000016 * \text{Date}^1 * \text{Flight} \#^1 * \text{cn/In}^1 + 0.000001080 * \text{Date}^1 * \text{Flight} \#^1 * \text{Aboard}^1 + \\
& 0.003182269 * \text{Date}^1 * \text{Flight} \#^1 * \text{Ground}^1 + 0.000000002 * \text{Date}^1 * \text{Route}^2 + 0.000000009 * \\
& * \text{Date}^1 * \text{Route}^1 * \text{Type}^1 + 0.000000002 * \text{Date}^1 * \text{Route}^1 * \text{Registration}^1 + 0.000000001 * \\
& \text{Date}^1 * \text{Route}^1 * \text{cn/In}^1 + 0.000000170 * \text{Date}^1 * \text{Route}^1 * \text{Aboard}^1 + 0.003334160 * \\
& \text{Date}^1 * \text{Route}^1 * \text{Ground}^1 + 0.000000004 * \text{Date}^1 * \text{Type}^2 + -0.000000001 * \\
& \text{Date}^1 * \text{Type}^1 * \text{Registration}^1 + -0.000000001 * \text{Date}^1 * \text{Type}^1 * \text{cn/In}^1 + 0.000000397 * \\
& \text{Date}^1 * \text{Type}^1 * \text{Aboard}^1 + 0.009654540 * \text{Date}^1 * \text{Type}^1 * \text{Ground}^1 + 0.000000001 * \\
& \text{Date}^1 * \text{Registration}^2 + 0.000000001 * \text{Date}^1 * \text{Registration}^1 * \text{cn/In}^1 + 0.000000075 * \\
& \text{Date}^1 * \text{Registration}^1 * \text{Aboard}^1 + 0.004558125 * \text{Date}^1 * \text{Registration}^1 * \text{Ground}^1 + \\
& 0.000000001 * \text{Date}^1 * \text{cn/In}^2 + -0.000000104 * \text{Date}^1 * \text{cn/In}^1 * \text{Aboard}^1 + -0.003803150 * \\
& \text{Date}^1 * \text{cn/In}^1 * \text{Ground}^1 + 0.000001131 * \text{Date}^1 * \text{Aboard}^2 + 0.008012584 * \\
& \text{Date}^1 * \text{Aboard}^1 * \text{Ground}^1 + 0.003543603 * \text{Date}^1 * \text{Ground}^2 + -0.000000217 * \text{Time}^3 + - \\
& 0.000000003 * \text{Time}^2 * \text{Location}^1 + 0.000000014 * \text{Time}^2 * \text{Operator}^1 + -0.000000193 * \\
& \text{Time}^2 * \text{Flight} \#^1 + -0.000000003 * \text{Time}^2 * \text{Route}^1 + 0.000000023 * \text{Time}^2 * \text{Type}^1 + \\
& 0.000000010 * \text{Time}^2 * \text{Registration}^1 + -0.000000032 * \text{Time}^2 * \text{cn/In}^1 + 0.000003270 * \\
& \text{Time}^2 * \text{Aboard}^1 + -0.001890789 * \text{Time}^2 * \text{Ground}^1 + -0.000000000 * \text{Time}^1 * \text{Location}^2 + \\
& 0.000000004 * \text{Time}^1 * \text{Location}^1 * \text{Operator}^1 + 0.000000156 * \text{Time}^1 * \text{Location}^1 * \text{Flight} \\
& \#^1 + 0.000000004 * \text{Time}^1 * \text{Location}^1 * \text{Route}^1 + 0.000000002 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Type}^1 + 0.000000006 * \text{Time}^1 * \text{Location}^1 * \text{Registration}^1 + \\
& 0.000000009 * \text{Time}^1 * \text{Location}^1 * \text{cn/In}^1 + 0.000000370 * \text{Time}^1 * \text{Location}^1 * \text{Aboard}^1 + - \\
& 0.006722480 * \text{Time}^1 * \text{Location}^1 * \text{Ground}^1 + -0.000000015 * \text{Time}^1 * \text{Operator}^2 + - \\
& 0.000000053 * \text{Time}^1 * \text{Operator}^1 * \text{Flight} \#^1 + -0.000000027 * \text{Time}^1 * \text{Operator}^1 * \text{Route}^1 + \\
& -0.000000001 * \text{Time}^1 * \text{Operator}^1 * \text{Type}^1 + 0.000000020 * \\
& \text{Time}^1 * \text{Operator}^1 * \text{Registration}^1 + -0.000000007 * \text{Time}^1 * \text{Operator}^1 * \text{cn/In}^1 + - \\
& 0.000000407 * \text{Time}^1 * \text{Operator}^1 * \text{Aboard}^1 + -0.001319553 * \\
& \text{Time}^1 * \text{Operator}^1 * \text{Ground}^1 + -0.000001546 * \text{Time}^1 * \text{Flight} \#^2 + -0.000000207 * \\
& \text{Time}^1 * \text{Flight} \#^1 * \text{Route}^1 + -0.000000039 * \text{Time}^1 * \text{Flight} \#^1 * \text{Type}^1 + -0.000000068 * \\
& \text{Time}^1 * \text{Flight} \#^1 * \text{Registration}^1 + -0.000000133 * \text{Time}^1 * \text{Flight} \#^1 * \text{cn/In}^1 + - \\
& 0.000003342 * \text{Time}^1 * \text{Flight} \#^1 * \text{Aboard}^1 + -0.010360466 * \text{Time}^1 * \text{Flight} \#^1 * \text{Ground}^1 + \\
& 0.000000005 * \text{Time}^1 * \text{Route}^2 + -0.000000004 * \text{Time}^1 * \text{Route}^1 * \text{Type}^1 + -0.000000000 * \\
& * \text{Time}^1 * \text{Route}^1 * \text{Registration}^1 + -0.000000008 * \text{Time}^1 * \text{Route}^1 * \text{cn/In}^1 + -0.000000782
\end{aligned}$$

$$\begin{aligned}
& * \text{Time}^1 * \text{Route}^1 * \text{Aboard}^1 + 0.004169543 * \text{Time}^1 * \text{Route}^1 * \text{Ground}^1 + 0.000000023 * \\
& \text{Time}^1 * \text{Type}^2 + -0.000000006 * \text{Time}^1 * \text{Type}^1 * \text{Registration}^1 + 0.000000001 * \\
& \text{Time}^1 * \text{Type}^1 * \text{cn/In}^1 + 0.000001768 * \text{Time}^1 * \text{Type}^1 * \text{Aboard}^1 + -0.002497118 * \\
& \text{Time}^1 * \text{Type}^1 * \text{Ground}^1 + 0.000000004 * \text{Time}^1 * \text{Registration}^2 + 0.000000001 * \\
& \text{Time}^1 * \text{Registration}^1 * \text{cn/In}^1 + 0.000000451 * \text{Time}^1 * \text{Registration}^1 * \text{Aboard}^1 + \\
& 0.001838551 * \text{Time}^1 * \text{Registration}^1 * \text{Ground}^1 + -0.000000010 * \text{Time}^1 * \text{cn/In}^2 + - \\
& 0.000000432 * \text{Time}^1 * \text{cn/In}^1 * \text{Aboard}^1 + 0.002675239 * \text{Time}^1 * \text{cn/In}^1 * \text{Ground}^1 + - \\
& 0.000006248 * \text{Time}^1 * \text{Aboard}^2 + 0.002505532 * \text{Time}^1 * \text{Aboard}^1 * \text{Ground}^1 + - \\
& 0.001583369 * \text{Time}^1 * \text{Ground}^2 + -0.000000003 * \text{Location}^3 + -0.000000003 * \\
& \text{Location}^2 * \text{Operator}^1 + -0.000000014 * \text{Location}^2 * \text{Flight} \#^1 + -0.000000000 * \\
& \text{Location}^2 * \text{Route}^1 + 0.000000000 * \text{Location}^2 * \text{Type}^1 + 0.000000002 * \\
& \text{Location}^2 * \text{Registration}^1 + 0.000000000 * \text{Location}^2 * \text{cn/In}^1 + 0.000000397 * \\
& \text{Location}^2 * \text{Aboard}^1 + 0.003598529 * \text{Location}^2 * \text{Ground}^1 + 0.000000006 * \\
& \text{Location}^1 * \text{Operator}^2 + 0.000000024 * \text{Location}^1 * \text{Operator}^1 * \text{Flight} \#^1 + -0.000000002 * \\
& \text{Location}^1 * \text{Operator}^1 * \text{Route}^1 + -0.000000001 * \text{Location}^1 * \text{Operator}^1 * \text{Type}^1 + \\
& 0.000000001 * \text{Location}^1 * \text{Operator}^1 * \text{Registration}^1 + 0.000000000 * \\
& \text{Location}^1 * \text{Operator}^1 * \text{cn/In}^1 + 0.000000232 * \text{Location}^1 * \text{Operator}^1 * \text{Aboard}^1 + \\
& 0.003939858 * \text{Location}^1 * \text{Operator}^1 * \text{Ground}^1 + -0.000000171 * \text{Location}^1 * \text{Flight} \#^2 + \\
& 0.000000001 * \text{Location}^1 * \text{Flight} \#^1 * \text{Route}^1 + 0.000000015 * \text{Location}^1 * \text{Flight} \\
& \#^1 * \text{Type}^1 + 0.000000017 * \text{Location}^1 * \text{Flight} \#^1 * \text{Registration}^1 + -0.000000016 * \\
& \text{Location}^1 * \text{Flight} \#^1 * \text{cn/In}^1 + 0.000000637 * \text{Location}^1 * \text{Flight} \#^1 * \text{Aboard}^1 + - \\
& 0.006263278 * \text{Location}^1 * \text{Flight} \#^1 * \text{Ground}^1 + -0.000000001 * \text{Location}^1 * \text{Route}^2 + - \\
& 0.000000001 * \text{Location}^1 * \text{Route}^1 * \text{Type}^1 + -0.000000003 * \\
& \text{Location}^1 * \text{Route}^1 * \text{Registration}^1 + -0.000000002 * \text{Location}^1 * \text{Route}^1 * \text{cn/In}^1 + - \\
& 0.000000082 * \text{Location}^1 * \text{Route}^1 * \text{Aboard}^1 + 0.004919098 * \\
& \text{Location}^1 * \text{Route}^1 * \text{Ground}^1 + -0.000000003 * \text{Location}^1 * \text{Type}^2 + 0.000000004 * \\
& \text{Location}^1 * \text{Type}^1 * \text{Registration}^1 + -0.000000002 * \text{Location}^1 * \text{Type}^1 * \text{cn/In}^1 + - \\
& 0.000000269 * \text{Location}^1 * \text{Type}^1 * \text{Aboard}^1 + -0.002810430 * \text{Location}^1 * \text{Type}^1 * \text{Ground}^1 \\
& + 0.000000001 * \text{Location}^1 * \text{Registration}^2 + 0.000000001 * \\
& \text{Location}^1 * \text{Registration}^1 * \text{cn/In}^1 + 0.000000095 * \text{Location}^1 * \text{Registration}^1 * \text{Aboard}^1 + \\
& 0.005708825 * \text{Location}^1 * \text{Registration}^1 * \text{Ground}^1 + -0.000000002 * \text{Location}^1 * \text{cn/In}^2 + - \\
& 0.000000214 * \text{Location}^1 * \text{cn/In}^1 * \text{Aboard}^1 + 0.000479646 * \text{Location}^1 * \text{cn/In}^1 * \text{Ground}^1 \\
& + 0.000003238 * \text{Location}^1 * \text{Aboard}^2 + 0.000147345 * \text{Location}^1 * \text{Aboard}^1 * \text{Ground}^1 + - \\
& 0.003331429 * \text{Location}^1 * \text{Ground}^2 + -0.000000003 * \text{Operator}^3 + -0.000000001 * \\
& \text{Operator}^2 * \text{Flight} \#^1 + 0.000000008 * \text{Operator}^2 * \text{Route}^1 + -0.000000004 * \\
& \text{Operator}^2 * \text{Type}^1 + -0.000000001 * \text{Operator}^2 * \text{Registration}^1 + 0.000000013 * \\
& \text{Operator}^2 * \text{cn/In}^1 + 0.000000636 * \text{Operator}^2 * \text{Aboard}^1 + 0.004253887 * \\
& \text{Operator}^2 * \text{Ground}^1 + 0.000000002 * \text{Operator}^1 * \text{Flight} \#^2 + -0.0000000012 * \\
& \text{Operator}^1 * \text{Flight} \#^1 * \text{Route}^1 + 0.000000003 * \text{Operator}^1 * \text{Flight} \#^1 * \text{Type}^1 + \\
& 0.000000021 * \text{Operator}^1 * \text{Flight} \#^1 * \text{Registration}^1 + 0.000000070 * \text{Operator}^1 * \text{Flight} \\
& \#^1 * \text{cn/In}^1 + 0.000002477 * \text{Operator}^1 * \text{Flight} \#^1 * \text{Aboard}^1 + -0.002776083 * \\
& \text{Operator}^1 * \text{Flight} \#^1 * \text{Ground}^1 + -0.000000003 * \text{Operator}^1 * \text{Route}^2 + 0.000000004 * \\
& \text{Operator}^1 * \text{Route}^1 * \text{Type}^1 + -0.000000004 * \text{Operator}^1 * \text{Route}^1 * \text{Registration}^1 + - \\
& 0.000000004 * \text{Operator}^1 * \text{Route}^1 * \text{cn/In}^1 + -0.000000219 * \text{Operator}^1 * \text{Route}^1 * \text{Aboard}^1 \\
& + 0.000845552 * \text{Operator}^1 * \text{Route}^1 * \text{Ground}^1 + 0.000000012 * \text{Operator}^1 * \text{Type}^2 + \\
& 0.000000009 * \text{Operator}^1 * \text{Type}^1 * \text{Registration}^1 + 0.000000008 *
\end{aligned}$$

Operator^1*Type^1*cn/In^1 + 0.000000506 * Operator^1*Type^1*Aboard^1 + -0.001683940 *
 Operator^1*Type^1*Ground^1 + -0.000000001 * Operator^1*Registration^2 + 0.000000001 *
 Operator^1*Registration^1*cn/In^1 + 0.000000205 * Operator^1*Registration^1*Aboard^1 +
 0.000660885 * Operator^1*Registration^1*Ground^1 + 0.000000002 * Operator^1*cn/In^2 + -
 0.000000233 * Operator^1*cn/In^1*Aboard^1 + -0.002313448 * Operator^1*cn/In^1*Ground^1
 + -0.000000904 * Operator^1*Aboard^2 + -0.002618727 * Operator^1*Aboard^1*Ground^1 + -
 0.000247516 * Operator^1*Ground^2 + -0.000002595 * Flight #^3 + -0.000000293 * Flight
 #^2*Route^1 + -0.000000472 * Flight #^2*Type^1 + -0.000000387 * Flight #^2*Registration^1
 + -0.000000074 * Flight #^2*cn/In^1 + 0.000005713 * Flight #^2*Aboard^1 + -0.003654644 *
 Flight #^2*Ground^1 + 0.000000007 * Flight #^1*Route^2 + 0.000000001 * Flight
 #^1*Route^1*Type^1 + -0.000000045 * Flight #^1*Route^1*Registration^1 + -0.000000006 *
 Flight #^1*Route^1*cn/In^1 + 0.000001047 * Flight #^1*Route^1*Aboard^1 + -0.001079443 *
 Flight #^1*Route^1*Ground^1 + 0.000000107 * Flight #^1*Type^2 + -0.000000022 * Flight
 #^1*Type^1*Registration^1 + 0.000000056 * Flight #^1*Type^1*cn/In^1 + 0.000002826 *
 Flight #^1*Type^1*Aboard^1 + -0.005984141 * Flight #^1*Type^1*Ground^1 + -0.000000017
 * Flight #^1*Registration^2 + -0.000000031 * Flight #^1*Registration^1*cn/In^1 +
 0.000000481 * Flight #^1*Registration^1*Aboard^1 + 0.001928209 * Flight
 #^1*Registration^1*Ground^1 + -0.000000007 * Flight #^1*cn/In^2 + -0.000002194 * Flight
 #^1*cn/In^1*Aboard^1 + -0.000016201 * Flight #^1*cn/In^1*Ground^1 + 0.000040054 * Flight
 #^1*Aboard^2 + -0.001342075 * Flight #^1*Aboard^1*Ground^1 + -0.000948943 * Flight
 #^1*Ground^2 + 0.000000004 * Route^3 + 0.000000001 * Route^2*Type^1 + 0.000000001 *
 Route^2*Registration^1 + -0.000000003 * Route^2*cn/In^1 + 0.000000410 *
 Route^2*Aboard^1 + 0.000537880 * Route^2*Ground^1 + 0.000000004 * Route^1*Type^2 + -
 0.000000004 * Route^1*Type^1*Registration^1 + -0.000000000 * Route^1*Type^1*cn/In^1 + -
 0.000000034 * Route^1*Type^1*Aboard^1 + 0.002514455 * Route^1*Type^1*Ground^1 + -
 0.000000002 * Route^1*Registration^2 + 0.000000001 * Route^1*Registration^1*cn/In^1 +
 0.000000231 * Route^1*Registration^1*Aboard^1 + 0.000422745 *
 Route^1*Registration^1*Ground^1 + -0.000000000 * Route^1*cn/In^2 + 0.000000136 *
 Route^1*cn/In^1*Aboard^1 + 0.000196363 * Route^1*cn/In^1*Ground^1 + 0.000000940 *
 Route^1*Aboard^2 + -0.003667242 * Route^1*Aboard^1*Ground^1 + -0.001439775 *
 Route^1*Ground^2 + -0.000000001 * Type^3 + 0.000000005 * Type^2*Registration^1 + -
 0.000000001 * Type^2*cn/In^1 + 0.000000468 * Type^2*Aboard^1 + 0.000956487 *
 Type^2*Ground^1 + -0.000000000 * Type^1*Registration^2 + -0.000000004 *
 Type^1*Registration^1*cn/In^1 + 0.000000343 * Type^1*Registration^1*Aboard^1 +
 0.001591975 * Type^1*Registration^1*Ground^1 + 0.000000003 * Type^1*cn/In^2 +
 0.000000127 * Type^1*cn/In^1*Aboard^1 + -0.001409359 * Type^1*cn/In^1*Ground^1 +
 0.000009994 * Type^1*Aboard^2 + 0.000077920 * Type^1*Aboard^1*Ground^1 +
 0.000222259 * Type^1*Ground^2 + 0.000000002 * Registration^3 + 0.000000001 *
 Registration^2*cn/In^1 + -0.000000038 * Registration^2*Aboard^1 + 0.001380306 *
 Registration^2*Ground^1 + 0.000000000 * Registration^1*cn/In^2 + -0.000000076 *
 Registration^1*cn/In^1*Aboard^1 + -0.001318055 * Registration^1*cn/In^1*Ground^1 +
 0.000000960 * Registration^1*Aboard^2 + -0.001717194 *
 Registration^1*Aboard^1*Ground^1 + 0.000418251 * Registration^1*Ground^2 + -
 0.000000001 * cn/In^3 + 0.000000123 * cn/In^2*Aboard^1 + -0.001917241 *
 cn/In^2*Ground^1 + -0.000000193 * cn/In^1*Aboard^2 + -0.001553727 *
 cn/In^1*Aboard^1*Ground^1 + 0.002140090 * cn/In^1*Ground^2 + 0.000029878 * Aboard^3 +

$-0.000264419 * \text{Aboard}^2 * \text{Ground}^1 + -0.001837700 * \text{Aboard}^1 * \text{Ground}^2 + 0.002463154 * \text{Ground}^3 +$
 $-0.000000000 * \text{Date}^4 + -0.000000000 * \text{Date}^3 * \text{Time}^1 + 0.000000000 * \text{Date}^3 * \text{Location}^1 +$
 $0.000000000 * \text{Date}^3 * \text{Operator}^1 + 0.000000000 * \text{Date}^3 * \text{Flight}^{\#1} +$
 $-0.000000000 * \text{Date}^3 * \text{Route}^1 + 0.000000000 * \text{Date}^3 * \text{Type}^1 + -0.000000000 * \text{Date}^3 * \text{Registration}^1 +$
 $0.000000000 * \text{Date}^3 * \text{cn/In}^1 + 0.000000000 * \text{Date}^3 * \text{Aboard}^1 + -0.000001952 * \text{Date}^3 * \text{Ground}^1 +$
 $0.000000000 * \text{Date}^2 * \text{Time}^2 + -0.000000000 * \text{Date}^2 * \text{Time}^1 * \text{Location}^1 + -0.000000000 * \text{Date}^2 * \text{Time}^1 * \text{Flight}^{\#1} +$
 $-0.000000000 * \text{Date}^2 * \text{Time}^1 * \text{Route}^1 + -0.000000000 * \text{Date}^2 * \text{Time}^1 * \text{Registration}^1 + -0.000000000 * \text{Date}^2 * \text{Time}^1 * \text{cn/In}^1 +$
 $0.000000000 * \text{Date}^2 * \text{Time}^1 * \text{Aboard}^1 + -0.0000009109 * \text{Date}^2 * \text{Time}^1 * \text{Ground}^1 +$
 $0.000000000 * \text{Date}^2 * \text{Time}^1 * \text{Location}^2 + -0.000000000 * \text{Date}^2 * \text{Location}^1 * \text{Operator}^1 +$
 $0.000000000 * \text{Date}^2 * \text{Location}^1 * \text{Flight}^{\#1} + -0.000000000 * \text{Date}^2 * \text{Location}^1 * \text{Route}^1 + -0.000000000 * \text{Date}^2 * \text{Location}^1 * \text{Type}^1 +$
 $0.000000000 * \text{Date}^2 * \text{Location}^1 * \text{Registration}^1 + 0.000000000 * \text{Date}^2 * \text{Location}^1 * \text{cn/In}^1 +$
 $-0.000000000 * \text{Date}^2 * \text{Location}^1 * \text{Aboard}^1 + 0.0000000756 * \text{Date}^2 * \text{Location}^1 * \text{Ground}^1 +$
 $0.000000000 * \text{Date}^2 * \text{Operator}^2 + 0.000000000 * \text{Date}^2 * \text{Operator}^1 * \text{Flight}^{\#1} + 0.000000000 * \text{Date}^2 * \text{Operator}^1 * \text{Route}^1 + -0.000000000 * \text{Date}^2 * \text{Operator}^1 * \text{Type}^1 +$
 $-0.000000000 * \text{Date}^2 * \text{Operator}^1 * \text{Registration}^1 + 0.000000000 * \text{Date}^2 * \text{Operator}^1 * \text{cn/In}^1 +$
 $0.000000000 * \text{Date}^2 * \text{Operator}^1 * \text{Aboard}^1 + -0.0000006603 * \text{Date}^2 * \text{Operator}^1 * \text{Ground}^1 +$
 $0.000000000 * \text{Date}^2 * \text{Operator}^1 * \text{Flight}^{\#2} + -0.000000000 * \text{Date}^2 * \text{Flight}^{\#1} * \text{Route}^1 + -0.000000000 * \text{Date}^2 * \text{Flight}^{\#1} * \text{cn/In}^1 +$
 $-0.000000000 * \text{Date}^2 * \text{Flight}^{\#1} * \text{Registration}^1 + 0.000000000 * \text{Date}^2 * \text{Flight}^{\#1} * \text{cn/In}^1 +$
 $+ 0.000000000 * \text{Date}^2 * \text{Flight}^{\#1} * \text{Aboard}^1 + -0.000014239 * \text{Date}^2 * \text{Flight}^{\#1} * \text{Ground}^1 +$
 $0.000000000 * \text{Date}^2 * \text{Route}^2 + -0.000000000 * \text{Date}^2 * \text{Route}^1 * \text{Type}^1 + 0.000000000 * \text{Date}^2 * \text{Route}^1 * \text{Registration}^1 + 0.000000000 * \text{Date}^2 * \text{Route}^1 * \text{cn/In}^1 +$
 $0.000000000 * \text{Date}^2 * \text{Route}^1 * \text{Aboard}^1 + 0.000007348 * \text{Date}^2 * \text{Route}^1 * \text{Ground}^1 + -0.000000000 * \text{Date}^2 * \text{Type}^2 + 0.000000000 * \text{Date}^2 * \text{Type}^1 * \text{Registration}^1 + -0.000000000 * \text{Date}^2 * \text{Type}^1 * \text{cn/In}^1 + -0.000000000 * \text{Date}^2 * \text{Type}^1 * \text{Aboard}^1 + 0.000001787 * \text{Date}^2 * \text{Type}^1 * \text{Ground}^1 + -0.000000000 * \text{Date}^2 * \text{Registration}^2 + -0.000000000 * \text{Date}^2 * \text{Registration}^1 * \text{cn/In}^1 + -0.000000000 * \text{Date}^2 * \text{Registration}^1 * \text{Aboard}^1 + 0.000001415 * \text{Date}^2 * \text{Registration}^1 * \text{Ground}^1 + 0.000000000 * \text{Date}^2 * \text{cn/In}^2 + 0.000000000 * \text{Date}^2 * \text{cn/In}^1 * \text{Aboard}^1 + -0.000003917 * \text{Date}^2 * \text{cn/In}^1 * \text{Ground}^1 + 0.000000000 * \text{Date}^2 * \text{Aboard}^2 + -0.000025137 * \text{Date}^2 * \text{Aboard}^1 * \text{Ground}^1 + 0.000243534 * \text{Date}^2 * \text{Ground}^2 + -0.000000000 * \text{Date}^1 * \text{Time}^3 + 0.000000000 * \text{Date}^1 * \text{Time}^2 * \text{Location}^1 + 0.000000000 * \text{Date}^1 * \text{Time}^2 * \text{Operator}^1 + -0.000000000 * \text{Date}^1 * \text{Time}^2 * \text{Flight}^{\#1} + -0.000000000 * \text{Date}^1 * \text{Time}^2 * \text{Route}^1 + -0.000000000 * \text{Date}^1 * \text{Time}^2 * \text{Registration}^1 + 0.000000000 * \text{Date}^1 * \text{Time}^2 * \text{cn/In}^1 + -0.000000000 * \text{Date}^1 * \text{Time}^2 * \text{Aboard}^1 + 0.000031542 * \text{Date}^1 * \text{Time}^2 * \text{Ground}^1 + -0.000000000 * \text{Date}^1 * \text{Time}^2 * \text{Location}^2 + -0.000000000 * \text{Date}^1 * \text{Time}^1 * \text{Location}^1 * \text{Operator}^1 + 0.000000000 * \text{Date}^1 * \text{Time}^1 * \text{Location}^1 * \text{Flight}^{\#1} + 0.000000000 * \text{Date}^1 * \text{Time}^1 * \text{Location}^1 * \text{Route}^1 + -0.000000000 * \text{Date}^1 * \text{Time}^1 * \text{Location}^1 * \text{Type}^1 + -0.000000000 * \text{Date}^1 * \text{Time}^1 * \text{Location}^1 * \text{Registration}^1 + -0.000000000 * \text{Date}^1 * \text{Time}^1 * \text{Location}^1 * \text{cn/In}^1 + -0.000000000 * \text{Date}^1 * \text{Time}^1 * \text{Location}^1 * \text{Aboard}^1 + -0.000002628 * \text{Date}^1 * \text{Time}^1 * \text{Location}^1 * \text{Ground}^1 + 0.000000000 * \text{Date}^1 * \text{Time}^1 * \text{Operator}^2 + 0.000000000 * \text{Date}^1 * \text{Time}^1 * \text{Operator}^1 * \text{Flight}^{\#1} + -$

0.000000000 * Date^1*Time^1*Operator^1*Route^1 + -0.000000000 *
 Date^1*Time^1*Operator^1*Type^1 + -0.000000000 *
 Date^1*Time^1*Operator^1*Registration^1 + 0.000000000 *
 Date^1*Time^1*Operator^1*cn/In^1 + 0.000000000 * Date^1*Time^1*Operator^1*Aboard^1
 + -0.000006493 * Date^1*Time^1*Operator^1*Ground^1 + 0.000000000 *
 Date^1*Time^1*Flight #^2 + -0.000000000 * Date^1*Time^1*Flight #^1*Route^1 +
 0.000000000 * Date^1*Time^1*Flight #^1*Type^1 + 0.000000000 * Date^1*Time^1*Flight
 #^1*Registration^1 + -0.000000000 * Date^1*Time^1*Flight #^1*cn/In^1 + 0.000000000 *
 Date^1*Time^1*Flight #^1*Aboard^1 + 0.000016307 * Date^1*Time^1*Flight #^1*Ground^1
 + 0.000000000 * Date^1*Time^1*Route^2 + -0.000000000 * Date^1*Time^1*Route^1*Type^1
 + -0.000000000 * Date^1*Time^1*Route^1*Registration^1 + -0.000000000 *
 Date^1*Time^1*Route^1*cn/In^1 + 0.000000000 * Date^1*Time^1*Route^1*Aboard^1 +
 0.000005432 * Date^1*Time^1*Route^1*Ground^1 + 0.000000000 * Date^1*Time^1*Type^2
 + 0.000000000 * Date^1*Time^1*Type^1*Registration^1 + -0.000000000 *
 Date^1*Time^1*Type^1*cn/In^1 + 0.000000000 * Date^1*Time^1*Type^1*Aboard^1 +
 0.000014394 * Date^1*Time^1*Type^1*Ground^1 + -0.000000000 *
 Date^1*Time^1*Registration^2 + -0.000000000 * Date^1*Time^1*Registration^1*cn/In^1 + -
 0.000000000 * Date^1*Time^1*Registration^1*Aboard^1 + -0.000002256 *
 Date^1*Time^1*Registration^1*Ground^1 + -0.000000000 * Date^1*Time^1*cn/In^2 +
 0.000000000 * Date^1*Time^1*cn/In^1*Aboard^1 + -0.000003194 *
 Date^1*Time^1*cn/In^1*Ground^1 + -0.000000000 * Date^1*Time^1*Aboard^2 + -
 0.000288873 * Date^1*Time^1*Aboard^1*Ground^1 + 0.000146006 *
 Date^1*Time^1*Ground^2 + -0.000000000 * Date^1*Location^3 + -0.000000000 *
 Date^1*Location^2*Operator^1 + 0.000000000 * Date^1*Location^2*Flight #^1 +
 0.000000000 * Date^1*Location^2*Route^1 + 0.000000000 * Date^1*Location^2*Type^1 + -
 0.000000000 * Date^1*Location^2*Registration^1 + -0.000000000 *
 Date^1*Location^2*cn/In^1 + -0.000000000 * Date^1*Location^2*Aboard^1 + -0.000000060 *
 Date^1*Location^2*Ground^1 + -0.000000000 * Date^1*Location^1*Operator^2 +
 0.000000000 * Date^1*Location^1*Operator^1*Flight #^1 + 0.000000000 *
 Date^1*Location^1*Operator^1*Route^1 + -0.000000000 *
 Date^1*Location^1*Operator^1*Type^1 + 0.000000000 *
 Date^1*Location^1*Operator^1*Registration^1 + 0.000000000 *
 Date^1*Location^1*Operator^1*cn/In^1 + 0.000000000 *
 Date^1*Location^1*Operator^1*Aboard^1 + -0.000004873 *
 Date^1*Location^1*Operator^1*Ground^1 + 0.000000000 * Date^1*Location^1*Flight #^2 +
 0.000000000 * Date^1*Location^1*Flight #^1*Route^1 + -0.000000000 *
 Date^1*Location^1*Flight #^1*Type^1 + -0.000000000 * Date^1*Location^1*Flight
 #^1*Registration^1 + 0.000000000 * Date^1*Location^1*Flight #^1*cn/In^1 + -0.000000000 *
 Date^1*Location^1*Flight #^1*Aboard^1 + 0.000033968 * Date^1*Location^1*Flight
 #^1*Ground^1 + 0.000000000 * Date^1*Location^1*Route^2 + -0.000000000 *
 Date^1*Location^1*Route^1*Type^1 + -0.000000000 *
 Date^1*Location^1*Route^1*Registration^1 + -0.000000000 *
 Date^1*Location^1*Route^1*cn/In^1 + -0.000000000 *
 Date^1*Location^1*Route^1*Aboard^1 + -0.000002111 *
 Date^1*Location^1*Route^1*Ground^1 + -0.000000000 * Date^1*Location^1*Type^2 +
 0.000000000 * Date^1*Location^1*Type^1*Registration^1 + -0.000000000 *

Date^1*Location^1*Type^1*cn/In^1 + -0.000000000 * Date^1*Location^1*Type^1*Aboard^1 + 0.000000286 * Date^1*Location^1*Type^1*Ground^1 + -0.000000000 * Date^1*Location^1*Registration^2 + 0.000000000 * Date^1*Location^1*Registration^1*cn/In^1 + 0.000000000 * Date^1*Location^1*Registration^1*Aboard^1 + 0.000002088 * Date^1*Location^1*Registration^1*Ground^1 + -0.000000000 * Date^1*Location^1*cn/In^2 + 0.000000000 * Date^1*Location^1*cn/In^1*Aboard^1 + -0.000003483 * Date^1*Location^1*cn/In^1*Ground^1 + -0.000000000 * Date^1*Location^1*Aboard^2 + 0.000055002 * Date^1*Location^1*Aboard^1*Ground^1 + -0.000149193 * Date^1*Location^1*Ground^2 + -0.000000000 * Date^1*Operator^3 + 0.000000000 * Date^1*Operator^2*Flight #^1 + 0.000000000 * Date^1*Operator^2*Route^1 + 0.000000000 * Date^1*Operator^2*Type^1 + 0.000000000 * Date^1*Operator^2*Registration^1 + -0.000000000 * Date^1*Operator^2*cn/In^1 + -0.000000000 * Date^1*Operator^2*Aboard^1 + 0.000006519 * Date^1*Operator^2*Ground^1 + -0.000000000 * Date^1*Operator^1*Flight #^2 + 0.000000000 * Date^1*Operator^1*Flight #^1*Route^1 + -0.000000000 * Date^1*Operator^1*Flight #^1*Type^1 + 0.000000000 * Date^1*Operator^1*Flight #^1*Registration^1 + -0.000000000 * Date^1*Operator^1*Flight #^1*cn/In^1 + -0.000000000 * Date^1*Operator^1*Flight #^1*Aboard^1 + 0.000011867 * Date^1*Operator^1*Flight #^1*Ground^1 + -0.000000000 * Date^1*Operator^1*Route^2 + 0.000000000 * Date^1*Operator^1*Route^1*Type^1 + 0.000000000 * Date^1*Operator^1*Route^1*Registration^1 + 0.000000000 * Date^1*Operator^1*Route^1*cn/In^1 + 0.000000000 * Date^1*Operator^1*Route^1*Aboard^1 + 0.000017300 * Date^1*Operator^1*Route^1*Ground^1 + -0.000000000 * Date^1*Operator^1*Type^2 + 0.000000000 * Date^1*Operator^1*Type^1*cn/In^1 + 0.000000000 * Date^1*Operator^1*Type^1*Aboard^1 + -0.0000017627 * Date^1*Operator^1*Type^1*Ground^1 + -0.000000000 * Date^1*Operator^1*Registration^2 + -0.000000000 * Date^1*Operator^1*Registration^1*cn/In^1 + 0.000000000 * Date^1*Operator^1*Registration^1*Aboard^1 + -0.0000005621 * Date^1*Operator^1*Registration^1*Ground^1 + 0.000000000 * Date^1*Operator^1*cn/In^2 + 0.000000000 * Date^1*Operator^1*Aboard^2 + 0.0000176077 * Date^1*Operator^1*Ground^1 + 0.000145617 * Date^1*Operator^1*Flight #^2*Route^1 + -0.000000000 * Date^1*Flight #^2*Type^1 + -0.000000000 * Date^1*Flight #^2*Registration^1 + 0.000000000 * Date^1*Flight #^2*cn/In^1 + -0.000000001 * Date^1*Flight #^2*Aboard^1 + -0.000082983 * Date^1*Flight #^2*Ground^1 + -0.000000000 * Date^1*Flight #^1*Route^2 + -0.000000000 * Date^1*Flight #^1*Route^1*Type^1 + -0.000000000 * Date^1*Flight #^1*Route^1*Registration^1 + 0.000000000 * Date^1*Flight #^1*Route^1*Aboard^1 + -0.000031454 * Date^1*Flight #^1*Route^1*Ground^1 + 0.000000000 * Date^1*Flight #^1*Type^2 + 0.000000000 * Date^1*Flight #^1*Type^1*Registration^1 + -0.000000000 * Date^1*Flight #^1*Type^1*cn/In^1 + -0.000000000 * Date^1*Flight #^1*Type^1*Aboard^1 + 0.000007630 * Date^1*Flight #^1*Type^1*Ground^1 + 0.000000000 * Date^1*Flight #^1*Registration^2 + -0.000000000 * Date^1*Flight #^1*Registration^1*cn/In^1 + -0.000000000 * Date^1*Flight #^1*Registration^1*Aboard^1 + 0.000019858 * Date^1*Flight #^1*Registration^1*Ground^1 +

$-0.000000000 * Date^1*Flight #^1*cn/In^2 + 0.000000000 * Date^1*Flight$
 $\#^1*cn/In^1*Aboard^1 + 0.000038797 * Date^1*Flight #^1*cn/In^1*Ground^1 + -0.000000001$
 $* Date^1*Flight #^1*Aboard^2 + 0.000053076 * Date^1*Flight #^1*Aboard^1*Ground^1 + -$
 $0.000300576 * Date^1*Flight #^1*Ground^2 + 0.000000000 * Date^1*Route^3 + -0.000000000$
 $* Date^1*Route^2*Type^1 + -0.000000000 * Date^1*Route^2*Registration^1 + -0.000000000$
 $* Date^1*Route^2*cn/In^1 + -0.000000000 * Date^1*Route^2*Aboard^1 + -0.000007472 *$
 $Date^1*Route^2*Ground^1 + 0.000000000 * Date^1*Route^1*Type^2 + -0.000000000 *$
 $Date^1*Route^1*Type^1*Registration^1 + 0.000000000 * Date^1*Route^1*Type^1*cn/In^1 + -$
 $0.000000000 * Date^1*Route^1*Type^1*Aboard^1 + 0.000008393 *$
 $Date^1*Route^1*Type^1*Ground^1 + 0.000000000 * Date^1*Route^1*Registration^2 + -$
 $0.000000000 * Date^1*Route^1*Registration^1*cn/In^1 + 0.000000000 *$
 $Date^1*Route^1*Registration^1*Aboard^1 + -0.000002883 *$
 $Date^1*Route^1*Registration^1*Ground^1 + -0.000000000 * Date^1*Route^1*cn/In^2 + -$
 $0.000000000 * Date^1*Route^1*cn/In^1*Aboard^1 + -0.000002881 *$
 $Date^1*Route^1*cn/In^1*Ground^1 + -0.000000000 * Date^1*Route^1*Aboard^2 + -$
 $0.000050001 * Date^1*Route^1*Aboard^1*Ground^1 + -0.000191628 *$
 $Date^1*Route^1*Ground^2 + -0.000000000 * Date^1*Type^3 + -0.000000000 *$
 $Date^1*Type^2*Registration^1 + 0.000000000 * Date^1*Type^2*cn/In^1 + -0.000000000 *$
 $Date^1*Type^2*Aboard^1 + -0.000016914 * Date^1*Type^2*Ground^1 + -0.000000000 *$
 $Date^1*Type^1*Registration^2 + -0.000000000 * Date^1*Type^1*Registration^1*cn/In^1 + -$
 $0.000000000 * Date^1*Type^1*Registration^1*Aboard^1 + 0.000001260 *$
 $Date^1*Type^1*Registration^1*Ground^1 + 0.000000000 * Date^1*Type^1*cn/In^2 +$
 $0.000000000 * Date^1*Type^1*cn/In^1*Aboard^1 + 0.000005887 *$
 $Date^1*Type^1*cn/In^1*Ground^1 + -0.000000001 * Date^1*Type^1*Aboard^2 +$
 $0.000064566 * Date^1*Type^1*Aboard^1*Ground^1 + -0.000022893 *$
 $Date^1*Type^1*Ground^2 + -0.000000000 * Date^1*Registration^3 + 0.000000000 *$
 $Date^1*Registration^2*cn/In^1 + 0.000000000 * Date^1*Registration^2*Aboard^1 + -$
 $0.000002688 * Date^1*Registration^2*Ground^1 + -0.000000000 *$
 $Date^1*Registration^1*cn/In^2 + -0.000000000 * Date^1*Registration^1*cn/In^1*Aboard^1 + -$
 $0.000001183 * Date^1*Registration^1*cn/In^1*Ground^1 + -0.000000000 *$
 $Date^1*Registration^1*Aboard^2 + 0.000051526 *$
 $Date^1*Registration^1*Aboard^1*Ground^1 + -0.000072647 *$
 $Date^1*Registration^1*Ground^2 + -0.000000000 * Date^1*cn/In^3 + -0.000000000 *$
 $Date^1*cn/In^2*Aboard^1 + -0.000000772 * Date^1*cn/In^2*Ground^1 + 0.000000000 *$
 $Date^1*cn/In^1*Aboard^2 + -0.000041244 * Date^1*cn/In^1*Aboard^1*Ground^1 +$
 $0.000029884 * Date^1*cn/In^1*Ground^2 + -0.000000006 * Date^1*Aboard^3 + 0.000059029$
 $* Date^1*Aboard^2*Ground^1 + -0.000001816 * Date^1*Aboard^1*Ground^2 + -0.000072887$
 $* Date^1*Ground^3 + 0.000000000 * Time^4 + 0.000000000 * Time^3*Location^1 + -$
 $0.000000000 * Time^3*Operator^1 + 0.000000000 * Time^3*Flight #^1 + 0.000000000 *$
 $Time^3*Route^1 + 0.000000000 * Time^3*Type^1 + -0.000000000 * Time^3*Registration^1 + -$
 $0.000000000 * Time^3*cn/In^1 + -0.000000002 * Time^3*Aboard^1 + -0.000227710 *$
 $Time^3*Ground^1 + 0.000000000 * Time^2*Location^2 + -0.000000000 *$
 $Time^2*Location^1*Operator^1 + -0.000000000 * Time^2*Location^1*Flight #^1 + -$
 $0.000000000 * Time^2*Location^1*Route^1 + 0.000000000 * Time^2*Location^1*Type^1 + -$
 $0.000000000 * Time^2*Location^1*Registration^1 + -0.000000000 *$
 $Time^2*Location^1*cn/In^1 + 0.000000000 * Time^2*Location^1*Aboard^1 + 0.000039892 *$

$$\begin{aligned}
& \text{Time}^2 * \text{Location}^1 * \text{Ground}^1 + 0.000000000 * \text{Time}^2 * \text{Operator}^2 + -0.000000000 * \\
& \text{Time}^2 * \text{Operator}^1 * \text{Flight} \#^1 + -0.000000000 * \text{Time}^2 * \text{Operator}^1 * \text{Route}^1 + 0.000000000 * \\
& * \text{Time}^2 * \text{Operator}^1 * \text{Type}^1 + -0.000000000 * \text{Time}^2 * \text{Operator}^1 * \text{Registration}^1 + \\
& 0.000000000 * \text{Time}^2 * \text{Operator}^1 * \text{cn/In}^1 + 0.000000000 * \text{Time}^2 * \text{Operator}^1 * \text{Aboard}^1 + \\
& 0.000014609 * \text{Time}^2 * \text{Operator}^1 * \text{Ground}^1 + 0.000000000 * \text{Time}^2 * \text{Flight} \#^2 + \\
& 0.000000000 * \text{Time}^2 * \text{Flight} \#^1 * \text{Route}^1 + -0.000000000 * \text{Time}^2 * \text{Flight} \#^1 * \text{Type}^1 + \\
& 0.000000000 * \text{Time}^2 * \text{Flight} \#^1 * \text{Registration}^1 + 0.000000000 * \text{Time}^2 * \text{Flight} \#^1 * \text{cn/In}^1 \\
& + -0.000000001 * \text{Time}^2 * \text{Flight} \#^1 * \text{Aboard}^1 + 0.000224309 * \text{Time}^2 * \text{Flight} \\
& \#^1 * \text{Ground}^1 + -0.000000000 * \text{Time}^2 * \text{Route}^2 + 0.000000000 * \text{Time}^2 * \text{Route}^1 * \text{Type}^1 \\
& + -0.000000000 * \text{Time}^2 * \text{Route}^1 * \text{Registration}^1 + -0.000000000 * \text{Time}^2 * \text{Route}^1 * \text{cn/In}^1 \\
& + 0.000000000 * \text{Time}^2 * \text{Route}^1 * \text{Aboard}^1 + -0.000057908 * \text{Time}^2 * \text{Route}^1 * \text{Ground}^1 + - \\
& 0.000000000 * \text{Time}^2 * \text{Type}^2 + 0.000000000 * \text{Time}^2 * \text{Type}^1 * \text{Registration}^1 + \\
& 0.000000000 * \text{Time}^2 * \text{Type}^1 * \text{cn/In}^1 + -0.000000000 * \text{Time}^2 * \text{Type}^1 * \text{Aboard}^1 + \\
& 0.000022892 * \text{Time}^2 * \text{Type}^1 * \text{Ground}^1 + 0.000000000 * \text{Time}^2 * \text{Registration}^2 + \\
& 0.000000000 * \text{Time}^2 * \text{Registration}^1 * \text{cn/In}^1 + 0.000000000 * \\
& \text{Time}^2 * \text{Registration}^1 * \text{Aboard}^1 + 0.000022842 * \text{Time}^2 * \text{Registration}^1 * \text{Ground}^1 + \\
& 0.000000000 * \text{Time}^2 * \text{cn/In}^2 + 0.000000000 * \text{Time}^2 * \text{cn/In}^1 * \text{Aboard}^1 + 0.000006917 * \\
& \text{Time}^2 * \text{cn/In}^1 * \text{Ground}^1 + -0.000000001 * \text{Time}^2 * \text{Aboard}^2 + 0.000069034 * \\
& \text{Time}^2 * \text{Aboard}^1 * \text{Ground}^1 + 0.000021737 * \text{Time}^2 * \text{Ground}^2 + -0.000000000 * \\
& \text{Time}^1 * \text{Location}^3 + 0.000000000 * \text{Time}^1 * \text{Location}^2 * \text{Operator}^1 + -0.000000000 * \\
& \text{Time}^1 * \text{Location}^2 * \text{Flight} \#^1 + -0.000000000 * \text{Time}^1 * \text{Location}^2 * \text{Route}^1 + -0.000000000 * \\
& * \text{Time}^1 * \text{Location}^2 * \text{Type}^1 + 0.000000000 * \text{Time}^1 * \text{Location}^2 * \text{Registration}^1 + - \\
& 0.000000000 * \text{Time}^1 * \text{Location}^2 * \text{cn/In}^1 + -0.000000000 * \text{Time}^1 * \text{Location}^2 * \text{Aboard}^1 + \\
& 0.000005172 * \text{Time}^1 * \text{Location}^2 * \text{Ground}^1 + 0.000000000 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Operator}^2 + -0.000000000 * \text{Time}^1 * \text{Location}^1 * \text{Operator}^1 * \text{Flight} \#^1 \\
& + -0.000000000 * \text{Time}^1 * \text{Location}^1 * \text{Operator}^1 * \text{Route}^1 + 0.000000000 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Operator}^1 * \text{Type}^1 + 0.000000000 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Operator}^1 * \text{Registration}^1 + -0.000000000 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Operator}^1 * \text{cn/In}^1 + -0.000000000 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Operator}^1 * \text{Aboard}^1 + 0.000010997 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Operator}^1 * \text{Ground}^1 + -0.000000000 * \text{Time}^1 * \text{Location}^1 * \text{Flight} \#^2 + \\
& 0.000000000 * \text{Time}^1 * \text{Location}^1 * \text{Flight} \#^1 * \text{Route}^1 + -0.000000000 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Flight} \#^1 * \text{Type}^1 + -0.000000000 * \text{Time}^1 * \text{Location}^1 * \text{Flight} \\
& \#^1 * \text{Registration}^1 + -0.000000000 * \text{Time}^1 * \text{Location}^1 * \text{Flight} \#^1 * \text{cn/In}^1 + 0.000000000 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Flight} \#^1 * \text{Aboard}^1 + -0.000099766 * \text{Time}^1 * \text{Location}^1 * \text{Flight} \\
& \#^1 * \text{Ground}^1 + -0.000000000 * \text{Time}^1 * \text{Location}^1 * \text{Route}^2 + 0.000000000 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Route}^1 * \text{Type}^1 + 0.000000000 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Route}^1 * \text{Registration}^1 + -0.000000000 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Route}^1 * \text{cn/In}^1 + 0.000000000 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Route}^1 * \text{Aboard}^1 + -0.000000710 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Route}^1 * \text{Ground}^1 + 0.000000000 * \text{Time}^1 * \text{Location}^1 * \text{Type}^2 + \\
& 0.000000000 * \text{Time}^1 * \text{Location}^1 * \text{Type}^1 * \text{Registration}^1 + 0.000000000 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Type}^1 * \text{cn/In}^1 + -0.000000000 * \text{Time}^1 * \text{Location}^1 * \text{Type}^1 * \text{Aboard}^1 \\
& + 0.000003757 * \text{Time}^1 * \text{Location}^1 * \text{Type}^1 * \text{Ground}^1 + 0.000000000 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Registration}^2 + -0.000000000 * \\
& \text{Time}^1 * \text{Location}^1 * \text{Registration}^1 * \text{cn/In}^1 + 0.000000000 *
\end{aligned}$$

Time¹*Location¹*Registration¹*Aboard¹ + -0.000004538 *
 Time¹*Location¹*Registration¹*Ground¹ + -0.000000000 * Time¹*Location¹*cn/In²
 + -0.000000000 * Time¹*Location¹*cn/In¹*Aboard¹ + 0.000002591 *
 Time¹*Location¹*cn/In¹*Ground¹ + -0.000000001 * Time¹*Location¹*Aboard² + -
 0.000190241 * Time¹*Location¹*Aboard¹*Ground¹ + -0.000055513 *
 Time¹*Location¹*Ground² + 0.000000000 * Time¹*Operator³ + 0.000000000 *
 Time¹*Operator²*Flight #¹ + 0.000000000 * Time¹*Operator²*Route¹ + 0.000000000
 * Time¹*Operator²*Type¹ + -0.000000000 * Time¹*Operator²*Registration¹ +
 0.000000000 * Time¹*Operator²*cn/In¹ + 0.000000000 * Time¹*Operator²*Aboard¹ +
 0.000033370 * Time¹*Operator²*Ground¹ + 0.000000000 * Time¹*Operator¹*Flight #²
 + 0.000000000 * Time¹*Operator¹*Flight #¹*Route¹ + -0.000000000 *
 Time¹*Operator¹*Flight #¹*Type¹ + -0.000000000 * Time¹*Operator¹*Flight
#¹*Registration¹ + -0.000000000 * Time¹*Operator¹*Flight #¹*cn/In¹ + -0.000000001
* Time¹*Operator¹*Flight #¹*Aboard¹ + -0.000126476 * Time¹*Operator¹*Flight
#¹*Ground¹ + 0.000000000 * Time¹*Operator¹*Route² + -0.000000000 *
Time¹*Operator¹*Route¹*Type¹ + 0.000000000 *
Time¹*Operator¹*Route¹*Registration¹ + 0.000000000 *
Time¹*Operator¹*Route¹*cn/In¹ + 0.000000000 *
Time¹*Operator¹*Route¹*Aboard¹ + -0.000025839 *
Time¹*Operator¹*Route¹*Ground¹ + -0.000000000 * Time¹*Operator¹*Type² +
0.000000000 * Time¹*Operator¹*Type¹*Registration¹ + 0.000000000 *
Time¹*Operator¹*Type¹*cn/In¹ + 0.000000000 * Time¹*Operator¹*Type¹*Aboard¹ +
0.000013554 * Time¹*Operator¹*Type¹*Ground¹ + -0.000000000 *
Time¹*Operator¹*Registration² + -0.000000000 *
Time¹*Operator¹*Registration¹*cn/In¹ + -0.000000000 *
Time¹*Operator¹*Registration¹*Aboard¹ + -0.000004376 *
Time¹*Operator¹*Registration¹*Ground¹ + -0.000000000 * Time¹*Operator¹*cn/In²
+ 0.000000000 * Time¹*Operator¹*cn/In¹*Aboard¹ + 0.000001402 *
Time¹*Operator¹*cn/In¹*Ground¹ + 0.000000001 * Time¹*Operator¹*Aboard² + -
0.000057699 * Time¹*Operator¹*Aboard¹*Ground¹ + 0.000077460 *
Time¹*Operator¹*Ground² + 0.000000000 * Time¹*Flight #³ + 0.000000000 *
Time¹*Flight #²*Route¹ + 0.000000000 * Time¹*Flight #²*Type¹ + 0.000000000 *
Time¹*Flight #²*Registration¹ + 0.000000000 * Time¹*Flight #²*cn/In¹ + 0.000000005
* Time¹*Flight #²*Aboard¹ + 0.000033696 * Time¹*Flight #²*Ground¹ + -
0.000000000 * Time¹*Flight #¹*Route² + 0.000000000 * Time¹*Flight
#¹*Route¹*Type¹ + 0.000000000 * Time¹*Flight #¹*Route¹*Registration¹ +
0.000000000 * Time¹*Flight #¹*Route¹*cn/In¹ + 0.000000000 * Time¹*Flight
#¹*Route¹*Aboard¹ + 0.000185666 * Time¹*Flight #¹*Route¹*Ground¹ + -
0.000000000 * Time¹*Flight #¹*Type² + -0.000000000 * Time¹*Flight
#¹*Type¹*Registration¹ + 0.000000000 * Time¹*Flight #¹*Type¹*cn/In¹ +
0.000000001 * Time¹*Flight #¹*Type¹*Aboard¹ + -0.000124612 * Time¹*Flight
#¹*Type¹*Ground¹ + -0.000000000 * Time¹*Flight #¹*Registration² + 0.000000000 *
Time¹*Flight #¹*Registration¹*cn/In¹ + 0.000000000 * Time¹*Flight
#¹*Registration¹*Aboard¹ + -0.000016308 * Time¹*Flight #¹*Registration¹*Ground¹ +
0.000000000 * Time¹*Flight #¹*cn/In² + 0.000000000 * Time¹*Flight
#¹*cn/In¹*Aboard¹ + 0.000010175 * Time¹*Flight #¹*cn/In¹*Ground¹ + -

0.000000001 * Time^1*Flight #^1*Aboard^2 + -0.000000461 * Time^1*Flight
 #^1*Aboard^1*Ground^1 + -0.000026308 * Time^1*Flight #^1*Ground^2 + -0.000000000 *
 Time^1*Route^3 + -0.000000000 * Time^1*Route^2*Type^1 + 0.000000000 *
 Time^1*Route^2*Registration^1 + -0.000000000 * Time^1*Route^2*cn/In^1 + -0.000000000 *
 Time^1*Route^2*Aboard^1 + -0.000000662 * Time^1*Route^2*Ground^1 + -0.000000000 *
 Time^1*Route^1*Type^2 + 0.000000000 * Time^1*Route^1*Type^1*Registration^1 + -
 0.000000000 * Time^1*Route^1*Type^1*cn/In^1 + 0.000000000 *
 Time^1*Route^1*Type^1*Aboard^1 + -0.000003761 * Time^1*Route^1*Type^1*Ground^1 +
 0.000000000 * Time^1*Route^1*Registration^2 + -0.000000000 *
 Time^1*Route^1*Registration^1*cn/In^1 + -0.000000000 *
 Time^1*Route^1*Registration^1*Aboard^1 + 0.000001040 *
 Time^1*Route^1*Registration^1*Ground^1 + 0.000000000 * Time^1*Route^1*cn/In^2 +
 0.000000000 * Time^1*Route^1*cn/In^1*Aboard^1 + -0.000020218 *
 Time^1*Route^1*cn/In^1*Ground^1 + 0.000000001 * Time^1*Route^1*Aboard^2 + -
 0.000029481 * Time^1*Route^1*Aboard^1*Ground^1 + 0.000032170 *
 Time^1*Route^1*Ground^2 + 0.000000000 * Time^1*Type^3 + 0.000000000 *
 Time^1*Type^2*Registration^1 + 0.000000000 * Time^1*Type^2*cn/In^1 + -0.000000000 *
 Time^1*Type^2*Aboard^1 + 0.000022819 * Time^1*Type^2*Ground^1 + 0.000000000 *
 Time^1*Type^1*Registration^2 + 0.000000000 * Time^1*Type^1*Registration^1*cn/In^1 + -
 0.000000000 * Time^1*Type^1*Registration^1*Aboard^1 + 0.000003869 *
 Time^1*Type^1*Registration^1*Ground^1 + -0.000000000 * Time^1*Type^1*cn/In^2 +
 0.000000000 * Time^1*Type^1*cn/In^1*Aboard^1 + -0.000015546 *
 Time^1*Type^1*cn/In^1*Ground^1 + -0.000000002 * Time^1*Type^1*Aboard^2 +
 0.000134973 * Time^1*Type^1*Aboard^1*Ground^1 + 0.000029725 *
 Time^1*Type^1*Ground^2 + -0.000000000 * Time^1*Registration^3 + -0.000000000 *
 Time^1*Registration^2*cn/In^1 + -0.000000000 * Time^1*Registration^2*Aboard^1 +
 0.000000526 * Time^1*Registration^2*Ground^1 + -0.000000000 *
 Time^1*Registration^1*cn/In^2 + -0.000000000 * Time^1*Registration^1*cn/In^1*Aboard^1 +
 -0.000002525 * Time^1*Registration^1*cn/In^1*Ground^1 + 0.000000001 *
 Time^1*Registration^1*Aboard^2 + 0.000280301 *
 Time^1*Registration^1*Aboard^1*Ground^1 + -0.000102065 *
 Time^1*Registration^1*Ground^2 + 0.000000000 * Time^1*cn/In^3 + -0.000000000 *
 Time^1*cn/In^2*Aboard^1 + 0.000011066 * Time^1*cn/In^2*Ground^1 + -0.000000000 *
 Time^1*cn/In^1*Aboard^2 + 0.000089384 * Time^1*cn/In^1*Aboard^1*Ground^1 +
 0.000056418 * Time^1*cn/In^1*Ground^2 + 0.000000042 * Time^1*Aboard^3 + -0.000003245
 * Time^1*Aboard^2*Ground^1 + -0.000008806 * Time^1*Aboard^1*Ground^2 + -
 0.000001335 * Time^1*Ground^3 + 0.000000000 * Location^4 + 0.000000000 *
 Location^3*Operator^1 + 0.000000000 * Location^3*Flight #^1 + 0.000000000 *
 Location^3*Route^1 + 0.000000000 * Location^3*Type^1 + -0.000000000 *
 Location^3*Registration^1 + 0.000000000 * Location^3*cn/In^1 + -0.000000000 *
 Location^3*Aboard^1 + -0.000001311 * Location^3*Ground^1 + -0.000000000 *
 Location^2*Operator^2 + 0.000000000 * Location^2*Operator^1*Flight #^1 + 0.000000000 *
 Location^2*Operator^1*Route^1 + 0.000000000 * Location^2*Operator^1*Type^1 +
 0.000000000 * Location^2*Operator^1*Registration^1 + -0.000000000 *
 Location^2*Operator^1*cn/In^1 + -0.000000000 * Location^2*Operator^1*Aboard^1 +
 0.000007922 * Location^2*Operator^1*Ground^1 + 0.000000000 * Location^2*Flight #^2 + -

0.000000000 * Location^2*Flight #^1*Route^1 + 0.000000000 * Location^2*Flight
 #^1*Type^1 + -0.000000000 * Location^2*Flight #^1*Registration^1 + -0.000000000 *
 Location^2*Flight #^1*cn/In^1 + -0.000000000 * Location^2*Flight #^1*Aboard^1 + -
 0.000007183 * Location^2*Flight #^1*Ground^1 + -0.000000000 * Location^2*Route^2 +
 0.000000000 * Location^2*Route^1*Type^1 + -0.000000000 *
 Location^2*Route^1*Registration^1 + 0.000000000 * Location^2*Route^1*cn/In^1 + -
 0.000000000 * Location^2*Route^1*Aboard^1 + -0.000002993 *
 Location^2*Route^1*Ground^1 + -0.000000000 * Location^2*Type^2 + -0.000000000 *
 Location^2*Type^1*Registration^1 + -0.000000000 * Location^2*Type^1*cn/In^1 + -
 0.000000000 * Location^2*Type^1*Aboard^1 + 0.000002990 * Location^2*Type^1*Ground^1
 + -0.000000000 * Location^2*Registration^2 + -0.000000000 *
 Location^2*Registration^1*cn/In^1 + -0.000000000 * Location^2*Registration^1*Aboard^1 +
 0.000000621 * Location^2*Registration^1*Ground^1 + 0.000000000 * Location^2*cn/In^2 +
 0.000000000 * Location^2*cn/In^1*Aboard^1 + -0.000000920 * Location^2*cn/In^1*Ground^1
 + -0.000000000 * Location^2*Aboard^2 + -0.000026401 * Location^2*Aboard^1*Ground^1 + -
 0.000066909 * Location^2*Ground^2 + 0.000000000 * Location^1*Operator^3 + -0.000000000
 * Location^1*Operator^2*Flight #^1 + 0.000000000 * Location^1*Operator^2*Route^1 + -
 0.000000000 * Location^1*Operator^2*Type^1 + 0.000000000 *
 Location^1*Operator^2*Registration^1 + -0.000000000 * Location^1*Operator^2*cn/In^1 + -
 0.000000000 * Location^1*Operator^2*Aboard^1 + -0.000009369 *
 Location^1*Operator^2*Ground^1 + -0.000000000 * Location^1*Operator^1*Flight #^2 +
 0.000000000 * Location^1*Operator^1*Flight #^1*Route^1 + 0.000000000 *
 Location^1*Operator^1*Flight #^1*Type^1 + -0.000000000 * Location^1*Operator^1*Flight
 #^1*Registration^1 + 0.000000000 * Location^1*Operator^1*Flight #^1*cn/In^1 + -
 0.000000000 * Location^1*Operator^1*Flight #^1*Aboard^1 + -0.000029005 *
 Location^1*Operator^1*Flight #^1*Ground^1 + 0.000000000 *
 Location^1*Operator^1*Route^2 + -0.000000000 * Location^1*Operator^1*Route^1*Type^1 +
 -0.000000000 * Location^1*Operator^1*Route^1*Registration^1 + -0.000000000 *
 Location^1*Operator^1*Route^1*cn/In^1 + 0.000000000 *
 Location^1*Operator^1*Route^1*Aboard^1 + -0.000002358 *
 Location^1*Operator^1*Route^1*Ground^1 + 0.000000000 * Location^1*Operator^1*Type^2
 + -0.000000000 * Location^1*Operator^1*Type^1*Registration^1 + -0.000000000 *
 Location^1*Operator^1*Type^1*cn/In^1 + 0.000000000 *
 Location^1*Operator^1*Type^1*Aboard^1 + 0.000003936 *
 Location^1*Operator^1*Type^1*Ground^1 + 0.000000000 *
 Location^1*Operator^1*Registration^2 + -0.000000000 *
 Location^1*Operator^1*Registration^1*cn/In^1 + -0.000000000 *
 Location^1*Operator^1*Registration^1*Aboard^1 + 0.000002875 *
 Location^1*Operator^1*Registration^1*Ground^1 + 0.000000000 *
 Location^1*Operator^1*cn/In^2 + 0.000000000 * Location^1*Operator^1*cn/In^1*Aboard^1 +
 0.000001326 * Location^1*Operator^1*cn/In^1*Ground^1 + -0.000000000 *
 Location^1*Operator^1*Aboard^2 + 0.000085128 *
 Location^1*Operator^1*Aboard^1*Ground^1 + -0.000229579 *
 Location^1*Operator^1*Ground^2 + 0.000000000 * Location^1*Flight #^3 + -0.000000000 *
 Location^1*Flight #^2*Route^1 + -0.000000000 * Location^1*Flight #^2*Type^1 +
 0.000000000 * Location^1*Flight #^2*Registration^1 + 0.000000000 * Location^1*Flight

$\#^2*cn/In^1 + -0.000000001 * Location^1*Flight \#^2*Aboard^1 + 0.000100838 *$
 $Location^1*Flight \#^2*Ground^1 + 0.000000000 * Location^1*Flight \#^1*Route^2 + -$
 $0.000000000 * Location^1*Flight \#^1*Route^1*Type^1 + 0.000000000 * Location^1*Flight$
 $\#^1*Route^1*Registration^1 + 0.000000000 * Location^1*Flight \#^1*Route^1*cn/In^1 + -$
 $0.000000000 * Location^1*Flight \#^1*Route^1*Aboard^1 + 0.000019235 * Location^1*Flight$
 $\#^1*Route^1*Ground^1 + 0.000000000 * Location^1*Flight \#^1*Type^2 + -0.000000000 *$
 $Location^1*Flight \#^1*Type^1*Registration^1 + 0.000000000 * Location^1*Flight$
 $\#^1*Type^1*cn/In^1 + 0.000000000 * Location^1*Flight \#^1*Type^1*Aboard^1 + -$
 $0.000019228 * Location^1*Flight \#^1*Type^1*Ground^1 + -0.000000000 * Location^1*Flight$
 $\#^1*Registration^2 + 0.000000000 * Location^1*Flight \#^1*Registration^1*cn/In^1 + -$
 $0.000000000 * Location^1*Flight \#^1*Registration^1*Aboard^1 + -0.000006089 *$
 $Location^1*Flight \#^1*Registration^1*Ground^1 + 0.000000000 * Location^1*Flight$
 $\#^1*cn/In^2 + 0.000000000 * Location^1*Flight \#^1*cn/In^1*Aboard^1 + -0.000032778 *$
 $Location^1*Flight \#^1*cn/In^1*Ground^1 + -0.000000001 * Location^1*Flight \#^1*Aboard^2$
 $+ -0.000173426 * Location^1*Flight \#^1*Aboard^1*Ground^1 + -0.000040450 *$
 $Location^1*Flight \#^1*Ground^2 + -0.000000000 * Location^1*Route^3 + 0.000000000 *$
 $Location^1*Route^2*Type^1 + 0.000000000 * Location^1*Route^2*Registration^1 + -$
 $0.000000000 * Location^1*Route^2*cn/In^1 + 0.000000000 * Location^1*Route^2*Aboard^1$
 $+ 0.000000403 * Location^1*Route^2*Ground^1 + -0.000000000 *$
 $Location^1*Route^1*Type^2 + -0.000000000 * Location^1*Route^1*Type^1*Registration^1 +$
 $0.000000000 * Location^1*Route^1*Type^1*cn/In^1 + 0.000000000 *$
 $Location^1*Route^1*Type^1*Aboard^1 + -0.000008597 *$
 $Location^1*Route^1*Type^1*Ground^1 + 0.000000000 * Location^1*Route^1*Registration^2$
 $+ 0.000000000 * Location^1*Route^1*Registration^1*cn/In^1 + 0.000000000 *$
 $Location^1*Route^1*Registration^1*Aboard^1 + -0.000000542 *$
 $Location^1*Route^1*Registration^1*Ground^1 + 0.000000000 * Location^1*Route^1*cn/In^2$
 $+ 0.000000000 * Location^1*Route^1*cn/In^1*Aboard^1 + 0.000003985 *$
 $Location^1*Route^1*cn/In^1*Ground^1 + 0.000000000 * Location^1*Route^1*Aboard^2 +$
 $0.000158521 * Location^1*Route^1*Aboard^1*Ground^1 + 0.000038970 *$
 $Location^1*Route^1*Ground^2 + 0.000000000 * Location^1*Type^3 + -0.000000000 *$
 $Location^1*Type^2*Registration^1 + 0.000000000 * Location^1*Type^2*cn/In^1 +$
 $0.000000000 * Location^1*Type^2*Aboard^1 + -0.000002095 * Location^1*Type^2*Ground^1$
 $+ 0.000000000 * Location^1*Type^1*Registration^2 + -0.000000000 *$
 $Location^1*Type^1*Registration^1*cn/In^1 + -0.000000000 *$
 $Location^1*Type^1*Registration^1*Aboard^1 + 0.000003507 *$
 $Location^1*Type^1*Registration^1*Ground^1 + 0.000000000 * Location^1*Type^1*cn/In^2 +$
 $-0.000000000 * Location^1*Type^1*cn/In^1*Aboard^1 + 0.000004257 *$
 $Location^1*Type^1*cn/In^1*Ground^1 + 0.000000001 * Location^1*Type^1*Aboard^2 + -$
 $0.000162240 * Location^1*Type^1*Aboard^1*Ground^1 + -0.000061896 *$
 $Location^1*Type^1*Ground^2 + -0.000000000 * Location^1*Registration^3 + -0.000000000 *$
 $Location^1*Registration^2*cn/In^1 + -0.000000000 * Location^1*Registration^2*Aboard^1 + -$
 $0.000002454 * Location^1*Registration^2*Ground^1 + -0.000000000 *$
 $Location^1*Registration^1*cn/In^2 + -0.000000000 *$
 $Location^1*Registration^1*cn/In^1*Aboard^1 + -0.000001634 *$
 $Location^1*Registration^1*cn/In^1*Ground^1 + 0.000000000 *$
 $Location^1*Registration^1*Aboard^2 + -0.000019205 *$

Location¹*Registration¹*Aboard¹*Ground¹ + 0.000117416 *
 Location¹*Registration¹*Ground² + -0.000000000 * Location¹*cn/In³ + -0.000000000 *
 Location¹*cn/In²*Aboard¹ + 0.000005547 * Location¹*cn/In²*Ground¹ + 0.000000000
 * Location¹*cn/In¹*Aboard² + 0.000016547 * Location¹*cn/In¹*Aboard¹*Ground¹ +
 0.000145294 * Location¹*cn/In¹*Ground² + -0.000000003 * Location¹*Aboard³ +
 0.000007548 * Location¹*Aboard²*Ground¹ + -0.000006878 *
 Location¹*Aboard¹*Ground² + -0.000007768 * Location¹*Ground³ + 0.000000000 *
 Operator⁴ + -0.000000000 * Operator³*Flight #¹ + -0.000000000 * Operator³*Route¹ +
 0.000000000 * Operator³*Type¹ + 0.000000000 * Operator³*Registration¹ + -
 0.000000000 * Operator³*cn/In¹ + -0.000000000 * Operator³*Aboard¹ + -0.000006291 *
 Operator³*Ground¹ + 0.000000000 * Operator²*Flight #² + -0.000000000 *
 Operator²*Flight #¹*Route¹ + -0.000000000 * Operator²*Flight #¹*Type¹ +
 0.000000000 * Operator²*Flight #¹*Registration¹ + -0.000000000 * Operator²*Flight
 #¹*cn/In¹ + 0.000000000 * Operator²*Flight #¹*Aboard¹ + -0.000014799 *
 Operator²*Flight #¹*Ground¹ + -0.000000000 * Operator²*Route² + -0.000000000 *
 Operator²*Route¹*Type¹ + 0.000000000 * Operator²*Route¹*Registration¹ +
 0.000000000 * Operator²*Route¹*cn/In¹ + -0.000000000 * Operator²*Route¹*Aboard¹
 + -0.000004279 * Operator²*Route¹*Ground¹ + 0.000000000 * Operator²*Type² + -
 0.000000000 * Operator²*Type¹*Registration¹ + -0.000000000 *
 Operator²*Type¹*cn/In¹ + -0.000000000 * Operator²*Type¹*Aboard¹ + 0.000017647 *
 Operator²*Type¹*Ground¹ + -0.000000000 * Operator²*Registration² + -0.000000000 *
 Operator²*Registration¹*cn/In¹ + -0.000000000 * Operator²*Registration¹*Aboard¹ + -
 0.000001784 * Operator²*Registration¹*Ground¹ + 0.000000000 * Operator²*cn/In² +
 0.000000000 * Operator²*cn/In¹*Aboard¹ + -0.000010237 * Operator²*cn/In¹*Ground¹
 + 0.000000000 * Operator²*Aboard² + -0.000011873 * Operator²*Aboard¹*Ground¹ +
 0.000093543 * Operator²*Ground² + -0.000000000 * Operator¹*Flight #³ + -0.000000000
 * Operator¹*Flight #²*Route¹ + 0.000000000 * Operator¹*Flight #²*Type¹ + -
 0.000000000 * Operator¹*Flight #²*Registration¹ + -0.000000000 * Operator¹*Flight
 #²*cn/In¹ + -0.000000001 * Operator¹*Flight #²*Aboard¹ + 0.000128965 *
 Operator¹*Flight #²*Ground¹ + 0.000000000 * Operator¹*Flight #¹*Route² +
 0.000000000 * Operator¹*Flight #¹*Route¹*Type¹ + 0.000000000 * Operator¹*Flight
 #¹*Route¹*Registration¹ + 0.000000000 * Operator¹*Flight #¹*Route¹*cn/In¹ +
 0.000000000 * Operator¹*Flight #¹*Route¹*Aboard¹ + 0.000023674 * Operator¹*Flight
 #¹*Route¹*Ground¹ + -0.000000000 * Operator¹*Flight #¹*Type² + -0.000000000 *
 Operator¹*Flight #¹*Type¹*Registration¹ + -0.000000000 * Operator¹*Flight
 #¹*Type¹*cn/In¹ + -0.000000000 * Operator¹*Flight #¹*Type¹*Aboard¹ +
 0.000002021 * Operator¹*Flight #¹*Type¹*Ground¹ + 0.000000000 * Operator¹*Flight
 #¹*Registration² + 0.000000000 * Operator¹*Flight #¹*Registration¹*cn/In¹ + -
 0.000000000 * Operator¹*Flight #¹*Registration¹*Aboard¹ + 0.000016686 *
 Operator¹*Flight #¹*Registration¹*Ground¹ + -0.000000000 * Operator¹*Flight
 #¹*cn/In² + -0.000000000 * Operator¹*Flight #¹*cn/In¹*Aboard¹ + -0.000014231 *
 Operator¹*Flight #¹*cn/In¹*Ground¹ + -0.000000004 * Operator¹*Flight #¹*Aboard²
 + -0.000197078 * Operator¹*Flight #¹*Aboard¹*Ground¹ + -0.000021741 *
 Operator¹*Flight #¹*Ground² + 0.000000000 * Operator¹*Route³ + 0.000000000 *
 Operator¹*Route²*Type¹ + 0.000000000 * Operator¹*Route²*Registration¹ +
 0.000000000 * Operator¹*Route²*cn/In¹ + -0.000000000 * Operator¹*Route²*Aboard¹

$$\begin{aligned}
& + -0.000000863 * \text{Operator}^1 * \text{Route}^2 * \text{Ground}^1 + -0.000000000 * \\
& \text{Operator}^1 * \text{Route}^1 * \text{Type}^2 + 0.000000000 * \text{Operator}^1 * \text{Route}^1 * \text{Type}^1 * \text{Registration}^1 + - \\
& 0.000000000 * \text{Operator}^1 * \text{Route}^1 * \text{Type}^1 * \text{cn/In}^1 + 0.000000000 * \\
& \text{Operator}^1 * \text{Route}^1 * \text{Type}^1 * \text{Aboard}^1 + -0.000005521 * \\
& \text{Operator}^1 * \text{Route}^1 * \text{Type}^1 * \text{Ground}^1 + -0.000000000 * \text{Operator}^1 * \text{Route}^1 * \text{Registration}^2 \\
& + -0.000000000 * \text{Operator}^1 * \text{Route}^1 * \text{Registration}^1 * \text{cn/In}^1 + -0.000000000 * \\
& \text{Operator}^1 * \text{Route}^1 * \text{Registration}^1 * \text{Aboard}^1 + -0.000001124 * \\
& \text{Operator}^1 * \text{Route}^1 * \text{Registration}^1 * \text{Ground}^1 + -0.000000000 * \text{Operator}^1 * \text{Route}^1 * \text{cn/In}^2 \\
& + 0.000000000 * \text{Operator}^1 * \text{Route}^1 * \text{cn/In}^1 * \text{Aboard}^1 + 0.000003902 * \\
& \text{Operator}^1 * \text{Route}^1 * \text{cn/In}^1 * \text{Ground}^1 + 0.000000001 * \text{Operator}^1 * \text{Route}^1 * \text{Aboard}^2 + - \\
& 0.000205864 * \text{Operator}^1 * \text{Route}^1 * \text{Aboard}^1 * \text{Ground}^1 + 0.000189617 * \\
& \text{Operator}^1 * \text{Route}^1 * \text{Ground}^2 + -0.000000000 * \text{Operator}^1 * \text{Type}^3 + -0.000000000 * \\
& \text{Operator}^1 * \text{Type}^2 * \text{Registration}^1 + -0.000000000 * \text{Operator}^1 * \text{Type}^2 * \text{cn/In}^1 + - \\
& 0.000000000 * \text{Operator}^1 * \text{Type}^2 * \text{Aboard}^1 + 0.000002648 * \text{Operator}^1 * \text{Type}^2 * \text{Ground}^1 \\
& + 0.000000000 * \text{Operator}^1 * \text{Type}^1 * \text{Registration}^2 + -0.000000000 * \\
& \text{Operator}^1 * \text{Type}^1 * \text{Registration}^1 * \text{cn/In}^1 + -0.000000000 * \\
& \text{Operator}^1 * \text{Type}^1 * \text{Registration}^1 * \text{Aboard}^1 + -0.000003765 * \\
& \text{Operator}^1 * \text{Type}^1 * \text{Registration}^1 * \text{Ground}^1 + 0.000000000 * \text{Operator}^1 * \text{Type}^1 * \text{cn/In}^2 + - \\
& 0.000000000 * \text{Operator}^1 * \text{Type}^1 * \text{cn/In}^1 * \text{Aboard}^1 + -0.000001120 * \\
& \text{Operator}^1 * \text{Type}^1 * \text{cn/In}^1 * \text{Ground}^1 + -0.000000001 * \text{Operator}^1 * \text{Type}^1 * \text{Aboard}^2 + \\
& 0.000074995 * \text{Operator}^1 * \text{Type}^1 * \text{Aboard}^1 * \text{Ground}^1 + 0.000106763 * \\
& \text{Operator}^1 * \text{Type}^1 * \text{Ground}^2 + 0.000000000 * \text{Operator}^1 * \text{Registration}^3 + 0.000000000 * \\
& \text{Operator}^1 * \text{Registration}^2 * \text{cn/In}^1 + 0.000000000 * \text{Operator}^1 * \text{Registration}^2 * \text{Aboard}^1 + \\
& 0.000001885 * \text{Operator}^1 * \text{Registration}^2 * \text{Ground}^1 + -0.000000000 * \\
& \text{Operator}^1 * \text{Registration}^1 * \text{cn/In}^2 + 0.000000000 * \\
& \text{Operator}^1 * \text{Registration}^1 * \text{cn/In}^1 * \text{Aboard}^1 + 0.000006598 * \\
& \text{Operator}^1 * \text{Registration}^1 * \text{cn/In}^1 * \text{Ground}^1 + -0.000000000 * \\
& \text{Operator}^1 * \text{Registration}^1 * \text{Aboard}^2 + -0.000058454 * \\
& \text{Operator}^1 * \text{Registration}^1 * \text{Aboard}^1 * \text{Ground}^1 + 0.000004377 * \\
& \text{Operator}^1 * \text{Registration}^1 * \text{Ground}^2 + -0.000000000 * \text{Operator}^1 * \text{cn/In}^3 + -0.000000000 * \\
& \text{Operator}^1 * \text{cn/In}^2 * \text{Aboard}^1 + -0.000006905 * \text{Operator}^1 * \text{cn/In}^2 * \text{Ground}^1 + \\
& 0.000000000 * \text{Operator}^1 * \text{cn/In}^1 * \text{Aboard}^2 + -0.000012627 * \\
& \text{Operator}^1 * \text{cn/In}^1 * \text{Aboard}^1 * \text{Ground}^1 + 0.000204161 * \text{Operator}^1 * \text{cn/In}^1 * \text{Ground}^2 + \\
& 0.000000005 * \text{Operator}^1 * \text{Aboard}^3 + 0.000036755 * \text{Operator}^1 * \text{Aboard}^2 * \text{Ground}^1 + - \\
& 0.000018763 * \text{Operator}^1 * \text{Aboard}^1 * \text{Ground}^2 + 0.000000656 * \text{Operator}^1 * \text{Ground}^3 + \\
& 0.000000001 * \text{Flight} \#^4 + 0.000000000 * \text{Flight} \#^3 * \text{Route}^1 + 0.000000000 * \text{Flight} \\
& \#^3 * \text{Type}^1 + 0.000000000 * \text{Flight} \#^3 * \text{Registration}^1 + -0.000000000 * \text{Flight} \#^3 * \text{cn/In}^1 + \\
& -0.000000004 * \text{Flight} \#^3 * \text{Aboard}^1 + -0.000144420 * \text{Flight} \#^3 * \text{Ground}^1 + 0.000000000 * \\
& \text{Flight} \#^2 * \text{Route}^2 + 0.000000000 * \text{Flight} \#^2 * \text{Route}^1 * \text{Type}^1 + 0.000000000 * \text{Flight} \\
& \#^2 * \text{Route}^1 * \text{Registration}^1 + 0.000000000 * \text{Flight} \#^2 * \text{Route}^1 * \text{cn/In}^1 + 0.000000000 * \\
& \text{Flight} \#^2 * \text{Route}^1 * \text{Aboard}^1 + -0.000087194 * \text{Flight} \#^2 * \text{Route}^1 * \text{Ground}^1 + - \\
& 0.000000000 * \text{Flight} \#^2 * \text{Type}^2 + 0.000000000 * \text{Flight} \#^2 * \text{Type}^1 * \text{Registration}^1 + \\
& 0.000000000 * \text{Flight} \#^2 * \text{Type}^1 * \text{cn/In}^1 + 0.000000001 * \text{Flight} \#^2 * \text{Type}^1 * \text{Aboard}^1 + - \\
& 0.000024546 * \text{Flight} \#^2 * \text{Type}^1 * \text{Ground}^1 + 0.000000000 * \text{Flight} \#^2 * \text{Registration}^2 + \\
& 0.000000000 * \text{Flight} \#^2 * \text{Registration}^1 * \text{cn/In}^1 + -0.000000000 * \text{Flight} \\
& \#^2 * \text{Registration}^1 * \text{Aboard}^1 + -0.000080339 * \text{Flight} \#^2 * \text{Registration}^1 * \text{Ground}^1 +
\end{aligned}$$

0.000000000 * Flight #^2*cn/In^2 + 0.000000001 * Flight #^2*cn/In^1*Aboard^1 +
 0.000088945 * Flight #^2*cn/In^1*Ground^1 + -0.000000009 * Flight #^2*Aboard^2 +
 0.000049482 * Flight #^2*Aboard^1*Ground^1 + -0.000070534 * Flight #^2*Ground^2 + -
 0.000000000 * Flight #^1*Route^3 + 0.000000000 * Flight #^1*Route^2*Type^1 + -
 0.000000000 * Flight #^1*Route^2*Registration^1 + 0.000000000 * Flight
 #^1*Route^2*cn/In^1 + -0.000000000 * Flight #^1*Route^2*Aboard^1 + 0.000006373 * Flight
 #^1*Route^2*Ground^1 + -0.000000000 * Flight #^1*Route^1*Type^2 + 0.000000000 * Flight
 #^1*Route^1*Type^1*Registration^1 + -0.000000000 * Flight #^1*Route^1*Type^1*cn/In^1 +
 -0.000000000 * Flight #^1*Route^1*Type^1*Aboard^1 + -0.000019711 * Flight
 #^1*Route^1*Type^1*Ground^1 + 0.000000000 * Flight #^1*Route^1*Registration^2 + -
 0.000000000 * Flight #^1*Route^1*Registration^1*cn/In^1 + -0.000000000 * Flight
 #^1*Route^1*Registration^1*Aboard^1 + -0.000020428 * Flight
 #^1*Route^1*Registration^1*Ground^1 + -0.000000000 * Flight #^1*Route^1*cn/In^2 + -
 0.000000000 * Flight #^1*Route^1*cn/In^1*Aboard^1 + 0.000015090 * Flight
 #^1*Route^1*cn/In^1*Ground^1 + 0.000000000 * Flight #^1*Route^1*Aboard^2 +
 0.000075683 * Flight #^1*Route^1*Aboard^1*Ground^1 + -0.000146123 * Flight
 #^1*Route^1*Ground^2 + -0.000000000 * Flight #^1*Type^3 + -0.000000000 * Flight
 #^1*Type^2*Registration^1 + -0.000000000 * Flight #^1*Type^2*cn/In^1 + -0.000000001 *
 Flight #^1*Type^2*Aboard^1 + 0.000064290 * Flight #^1*Type^2*Ground^1 + 0.000000000 *
 Flight #^1*Type^1*Registration^2 + 0.000000000 * Flight #^1*Type^1*Registration^1*cn/In^1 +
 0.000000000 * Flight #^1*Type^1*Registration^1*Aboard^1 + 0.000010765 * Flight
 #^1*Type^1*Registration^1*Ground^1 + -0.000000000 * Flight #^1*Type^1*cn/In^2 + -
 0.000000000 * Flight #^1*Type^1*cn/In^1*Aboard^1 + -0.000028982 * Flight
 #^1*Type^1*cn/In^1*Ground^1 + -0.000000002 * Flight #^1*Type^1*Aboard^2 +
 0.000108166 * Flight #^1*Type^1*Aboard^1*Ground^1 + -0.000083257 * Flight
 #^1*Type^1*Ground^2 + -0.000000000 * Flight #^1*Registration^3 + -0.000000000 * Flight
 #^1*Registration^2*cn/In^1 + 0.000000000 * Flight #^1*Registration^2*Aboard^1 +
 0.000014355 * Flight #^1*Registration^2*Ground^1 + 0.000000000 * Flight
 #^1*Registration^1*cn/In^2 + 0.000000000 * Flight #^1*Registration^1*cn/In^1*Aboard^1 + -
 0.000004723 * Flight #^1*Registration^1*cn/In^1*Ground^1 + -0.000000002 * Flight
 #^1*Registration^1*Aboard^2 + -0.000073109 * Flight
 #^1*Registration^1*Aboard^1*Ground^1 + -0.000106033 * Flight
 #^1*Registration^1*Ground^2 + 0.000000000 * Flight #^1*cn/In^3 + -0.000000000 * Flight
 #^1*cn/In^2*Aboard^1 + -0.000011345 * Flight #^1*cn/In^2*Ground^1 + 0.000000004 * Flight
 #^1*cn/In^1*Aboard^2 + 0.000179767 * Flight #^1*cn/In^1*Aboard^1*Ground^1 + -
 0.000134137 * Flight #^1*cn/In^1*Ground^2 + -0.000000089 * Flight #^1*Aboard^3 + -
 0.000022074 * Flight #^1*Aboard^2*Ground^1 + -0.000007957 * Flight
 #^1*Aboard^1*Ground^2 + -0.000004838 * Flight #^1*Ground^3 + 0.000000000 * Route^4 + -
 0.000000000 * Route^3*Type^1 + -0.000000000 * Route^3*Registration^1 + 0.000000000 *
 Route^3*cn/In^1 + -0.000000000 * Route^3*Aboard^1 + 0.000000082 * Route^3*Ground^1 + -
 0.000000000 * Route^2*Type^2 + 0.000000000 * Route^2*Type^1*Registration^1 +
 0.000000000 * Route^2*Type^1*cn/In^1 + -0.000000000 * Route^2*Type^1*Aboard^1 +
 0.000004053 * Route^2*Type^1*Ground^1 + -0.000000000 * Route^2*Registration^2 +
 0.000000000 * Route^2*Registration^1*cn/In^1 + -0.000000000 *
 Route^2*Registration^1*Aboard^1 + 0.000006377 * Route^2*Registration^1*Ground^1 +
 0.000000000 * Route^2*cn/In^2 + -0.000000000 * Route^2*cn/In^1*Aboard^1 + -0.000003348

$$* \text{Route}^2*\text{cn}/\text{In}^1*\text{Ground}^1 + -0.000000001 * \text{Route}^2*\text{Aboard}^2 + 0.000044291 *$$

$$\text{Route}^2*\text{Aboard}^1*\text{Ground}^1 + 0.000066020 * \text{Route}^2*\text{Ground}^2 + -0.000000000 *$$

$$\text{Route}^1*\text{Type}^3 + -0.000000000 * \text{Route}^1*\text{Type}^2*\text{Registration}^1 + -0.000000000 *$$

$$\text{Route}^1*\text{Type}^2*\text{cn}/\text{In}^1 + 0.000000000 * \text{Route}^1*\text{Type}^2*\text{Aboard}^1 + 0.000001074 *$$

$$\text{Route}^1*\text{Type}^2*\text{Ground}^1 + 0.000000000 * \text{Route}^1*\text{Type}^1*\text{Registration}^2 + 0.000000000$$

$$* \text{Route}^1*\text{Type}^1*\text{Registration}^1*\text{cn}/\text{In}^1 + -0.000000000 *$$

$$\text{Route}^1*\text{Type}^1*\text{Registration}^1*\text{Aboard}^1 + -0.000005665 *$$

$$\text{Route}^1*\text{Type}^1*\text{Registration}^1*\text{Ground}^1 + 0.000000000 * \text{Route}^1*\text{Type}^1*\text{cn}/\text{In}^2 +$$

$$0.000000000 * \text{Route}^1*\text{Type}^1*\text{cn}/\text{In}^1*\text{Aboard}^1 + 0.000003343 *$$

$$\text{Route}^1*\text{Type}^1*\text{cn}/\text{In}^1*\text{Ground}^1 + 0.000000000 * \text{Route}^1*\text{Type}^1*\text{Aboard}^2 +$$

$$0.000032378 * \text{Route}^1*\text{Type}^1*\text{Aboard}^1*\text{Ground}^1 + 0.000093041 *$$

$$\text{Route}^1*\text{Type}^1*\text{Ground}^2 + -0.000000000 * \text{Route}^1*\text{Registration}^3 + -0.000000000 *$$

$$\text{Route}^1*\text{Registration}^2*\text{cn}/\text{In}^1 + 0.000000000 * \text{Route}^1*\text{Registration}^2*\text{Aboard}^1 +$$

$$0.000000318 * \text{Route}^1*\text{Registration}^2*\text{Ground}^1 + 0.000000000 *$$

$$\text{Route}^1*\text{Registration}^1*\text{cn}/\text{In}^2 + -0.000000000 * \text{Route}^1*\text{Registration}^1*\text{cn}/\text{In}^1*\text{Aboard}^1 +$$

$$-0.000000889 * \text{Route}^1*\text{Registration}^1*\text{cn}/\text{In}^1*\text{Ground}^1 + -0.000000001 *$$

$$\text{Route}^1*\text{Registration}^1*\text{Aboard}^2 + -0.000127289 *$$

$$\text{Route}^1*\text{Registration}^1*\text{Aboard}^1*\text{Ground}^1 + 0.000055456 *$$

$$\text{Route}^1*\text{Registration}^1*\text{Ground}^2 + 0.000000000 * \text{Route}^1*\text{cn}/\text{In}^3 + -0.000000000 *$$

$$\text{Route}^1*\text{cn}/\text{In}^2*\text{Aboard}^1 + 0.000000058 * \text{Route}^1*\text{cn}/\text{In}^2*\text{Ground}^1 + 0.000000000 *$$

$$\text{Route}^1*\text{cn}/\text{In}^1*\text{Aboard}^2 + 0.000032177 * \text{Route}^1*\text{cn}/\text{In}^1*\text{Aboard}^1*\text{Ground}^1 + -$$

$$0.000053178 * \text{Route}^1*\text{cn}/\text{In}^1*\text{Ground}^2 + 0.000000004 * \text{Route}^1*\text{Aboard}^3 + -$$

$$0.000029462 * \text{Route}^1*\text{Aboard}^2*\text{Ground}^1 + -0.000019604 * \text{Route}^1*\text{Aboard}^1*\text{Ground}^2 +$$

$$-0.000015232 * \text{Route}^1*\text{Ground}^3 + 0.000000000 * \text{Type}^4 + -0.000000000 *$$

$$\text{Type}^3*\text{Registration}^1 + 0.000000000 * \text{Type}^3*\text{cn}/\text{In}^1 + 0.000000000 * \text{Type}^3*\text{Aboard}^1 +$$

$$-0.000009588 * \text{Type}^3*\text{Ground}^1 + -0.000000000 * \text{Type}^2*\text{Registration}^2 + 0.000000000 *$$

$$\text{Type}^2*\text{Registration}^1*\text{cn}/\text{In}^1 + -0.000000000 * \text{Type}^2*\text{Registration}^1*\text{Aboard}^1 + -$$

$$0.000007791 * \text{Type}^2*\text{Registration}^1*\text{Ground}^1 + 0.000000000 * \text{Type}^2*\text{cn}/\text{In}^2 +$$

$$0.000000000 * \text{Type}^2*\text{cn}/\text{In}^1*\text{Aboard}^1 + 0.000008555 * \text{Type}^2*\text{cn}/\text{In}^1*\text{Ground}^1 + -$$

$$0.000000002 * \text{Type}^2*\text{Aboard}^2 + 0.000209722 * \text{Type}^2*\text{Aboard}^1*\text{Ground}^1 +$$

$$0.000011897 * \text{Type}^2*\text{Ground}^2 + -0.000000000 * \text{Type}^1*\text{Registration}^3 + 0.000000000 *$$

$$\text{Type}^1*\text{Registration}^2*\text{cn}/\text{In}^1 + -0.000000000 * \text{Type}^1*\text{Registration}^2*\text{Aboard}^1 +$$

$$0.000001139 * \text{Type}^1*\text{Registration}^2*\text{Ground}^1 + 0.000000000 *$$

$$\text{Type}^1*\text{Registration}^1*\text{cn}/\text{In}^2 + 0.000000000 * \text{Type}^1*\text{Registration}^1*\text{cn}/\text{In}^1*\text{Aboard}^1 +$$

$$0.000005390 * \text{Type}^1*\text{Registration}^1*\text{cn}/\text{In}^1*\text{Ground}^1 + 0.000000000 *$$

$$\text{Type}^1*\text{Registration}^1*\text{Aboard}^2 + -0.000058734 *$$

$$\text{Type}^1*\text{Registration}^1*\text{Aboard}^1*\text{Ground}^1 + 0.000015120 *$$

$$\text{Type}^1*\text{Registration}^1*\text{Ground}^2 + -0.000000000 * \text{Type}^1*\text{cn}/\text{In}^3 + -0.000000000 *$$

$$\text{Type}^1*\text{cn}/\text{In}^2*\text{Aboard}^1 + -0.000006734 * \text{Type}^1*\text{cn}/\text{In}^2*\text{Ground}^1 + -0.000000001 *$$

$$\text{Type}^1*\text{cn}/\text{In}^1*\text{Aboard}^2 + -0.000124827 * \text{Type}^1*\text{cn}/\text{In}^1*\text{Aboard}^1*\text{Ground}^1 + -$$

$$0.000003255 * \text{Type}^1*\text{cn}/\text{In}^1*\text{Ground}^2 + -0.000000005 * \text{Type}^1*\text{Aboard}^3 + -$$

$$0.000041638 * \text{Type}^1*\text{Aboard}^2*\text{Ground}^1 + -0.000008693 * \text{Type}^1*\text{Aboard}^1*\text{Ground}^2 +$$

$$0.000000693 * \text{Type}^1*\text{Ground}^3 + -0.000000000 * \text{Registration}^4 + 0.000000000 *$$

$$\text{Registration}^3*\text{cn}/\text{In}^1 + 0.000000000 * \text{Registration}^3*\text{Aboard}^1 + -0.000001578 *$$

$$\text{Registration}^3*\text{Ground}^1 + -0.000000000 * \text{Registration}^2*\text{cn}/\text{In}^2 + -0.000000000 *$$

$$\text{Registration}^2*\text{cn}/\text{In}^1*\text{Aboard}^1 + 0.000001373 * \text{Registration}^2*\text{cn}/\text{In}^1*\text{Ground}^1 +$$

$$\begin{aligned}
& 0.000000000 * \text{Registration}^2 * \text{Aboard}^2 + 0.000024949 * \text{Registration}^2 * \text{Aboard}^1 * \text{Ground}^1 \\
& + -0.000067368 * \text{Registration}^2 * \text{Ground}^2 + -0.000000000 * \text{Registration}^1 * \text{cn/In}^3 + - \\
& 0.000000000 * \text{Registration}^1 * \text{cn/In}^2 * \text{Aboard}^1 + -0.000001744 * \\
& \text{Registration}^1 * \text{cn/In}^2 * \text{Ground}^1 + 0.000000000 * \text{Registration}^1 * \text{cn/In}^1 * \text{Aboard}^2 + \\
& 0.000047635 * \text{Registration}^1 * \text{cn/In}^1 * \text{Aboard}^1 * \text{Ground}^1 + 0.000119369 * \\
& \text{Registration}^1 * \text{cn/In}^1 * \text{Ground}^2 + 0.000000000 * \text{Registration}^1 * \text{Aboard}^3 + 0.000030225 * \\
& \text{Registration}^1 * \text{Aboard}^2 * \text{Ground}^1 + -0.000038545 * \text{Registration}^1 * \text{Aboard}^1 * \text{Ground}^2 + - \\
& 0.000000703 * \text{Registration}^1 * \text{Ground}^3 + 0.000000000 * \text{cn/In}^4 + 0.000000000 * \\
& \text{cn/In}^3 * \text{Aboard}^1 + 0.000003386 * \text{cn/In}^3 * \text{Ground}^1 + -0.000000001 * \text{cn/In}^2 * \text{Aboard}^2 + - \\
& 0.000064522 * \text{cn/In}^2 * \text{Aboard}^1 * \text{Ground}^1 + -0.000248246 * \text{cn/In}^2 * \text{Ground}^2 + - \\
& 0.000000001 * \text{cn/In}^1 * \text{Aboard}^3 + 0.000005488 * \text{cn/In}^1 * \text{Aboard}^2 * \text{Ground}^1 + - \\
& 0.000035265 * \text{cn/In}^1 * \text{Aboard}^1 * \text{Ground}^2 + -0.000007968 * \text{cn/In}^1 * \text{Ground}^3 + \\
& 0.000000009 * \text{Aboard}^4 + 0.000003555 * \text{Aboard}^3 * \text{Ground}^1 + -0.000002810 * \\
& \text{Aboard}^2 * \text{Ground}^2 + -0.000000837 * \text{Aboard}^1 * \text{Ground}^3 + -0.000000072 * \text{Ground}^4
\end{aligned}$$

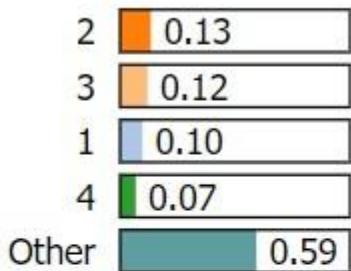
Accuracy: 0.7149803359260007

The given equations represent a linear equation and a polynomial equation, both modeling the relationship between various factors and the number of fatalities in aviation incidents. Let's break down each equation:

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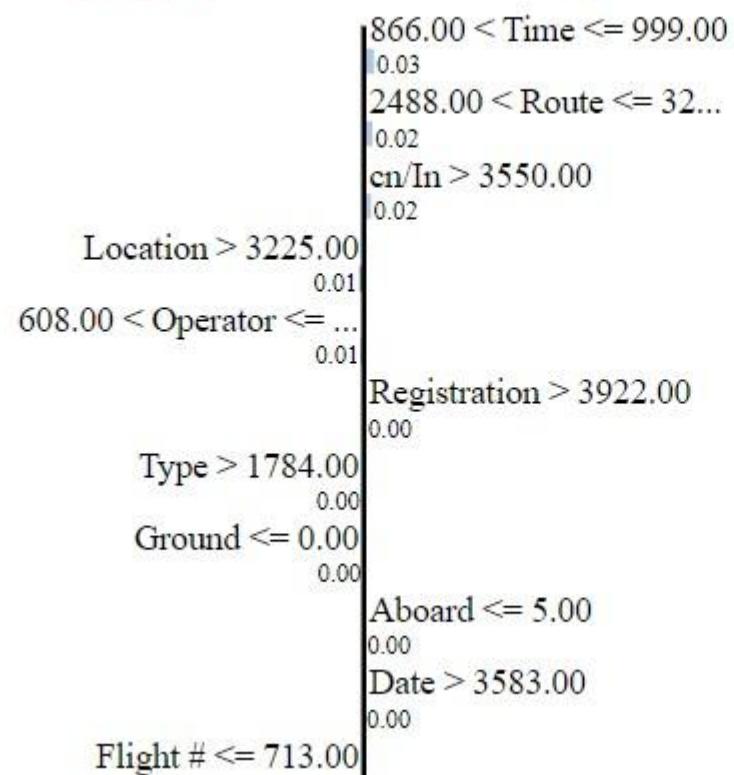
LIME INTERPRETATION:

Prediction probabilities



NOT 1

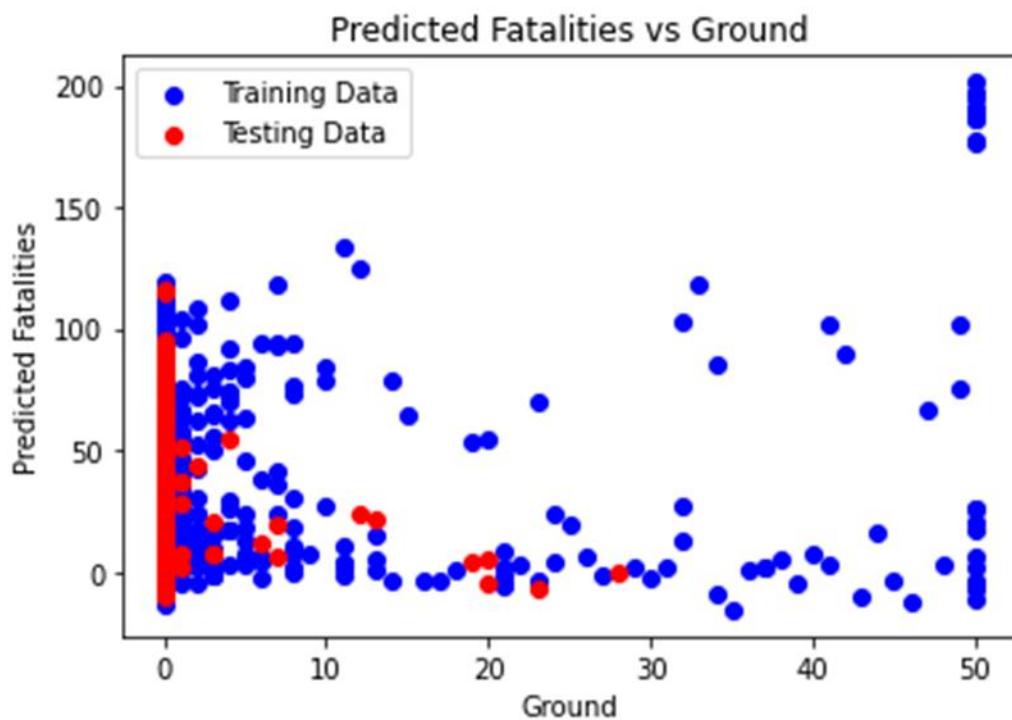
1



Feature	Value
Time	999.00
Route	3244.00
cn/In	3638.00
Location	4083.00
Operator	640.00
Registration	4903.00
Type	2446.00
Ground	0.00
Aboard	3.00
Date	4712.00

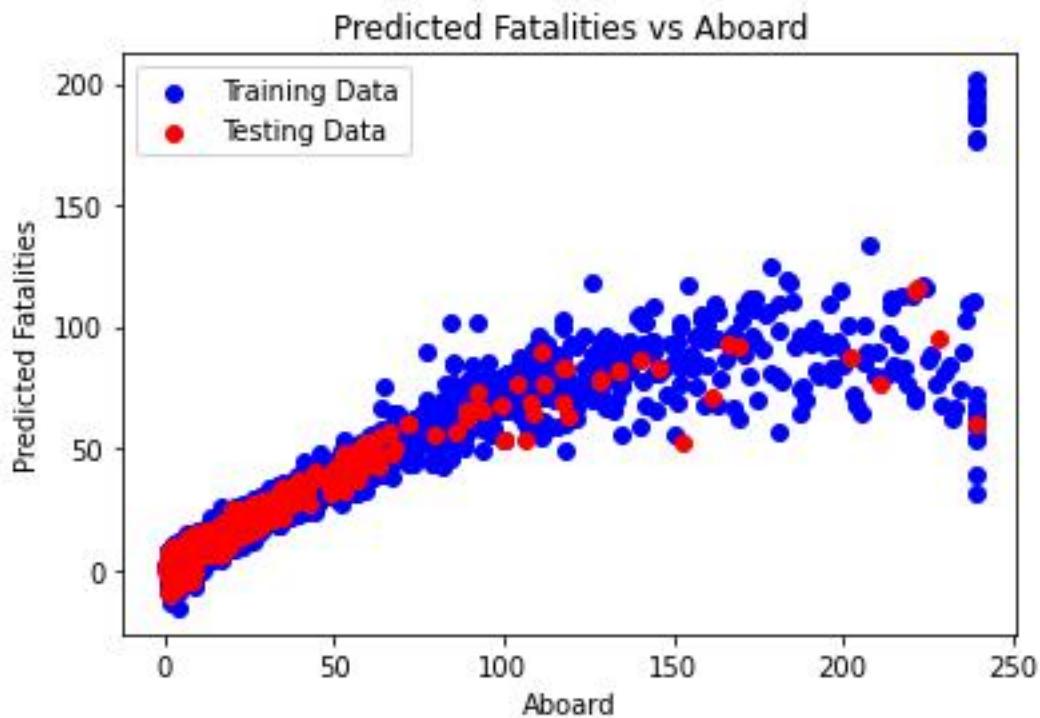
Flight # 713.00

The document provided is a spreadsheet displaying the outcomes of a machine learning model tasked with forecasting the likelihood of aircraft fatalities based on several variables, including aircraft type, location, and time of day. Notably, the most influential factor in predicting aircraft fatalities is the location, as denoted by its highest associated value of 0.13. This signifies that the location holds the greatest sway over the model's prognostication. Additionally, significant predictors include the time of day (0.10) and the type of aircraft (0.07). The figures within the "Prediction probabilities" column signify the probability of an aircraft fatality given specific combinations of factors. For instance, a probability of 0.13 in the initial row suggests a 13% chance of a fatality if the location corresponds to "cn/ln > 3550.00". Despite its utility, it is imperative to recognize that this model's predictions may not always align with actual outcomes. Nonetheless, it serves as a valuable tool for identifying flights potentially at higher risk of accidents. Furthermore, the spreadsheet reveals additional insights, such as the secondary impact of factors like route, operator, registration, and flight date, albeit with lesser significance compared to location, time, and aircraft type. Moreover, the presence of 0.00 values in the "Ground" and "Aboard" cells indicates a null probability of fatalities when flights are grounded or devoid of passengers, respectively.



The plot provided illustrates a scatter plot depicting the disparity between predicted and actual numbers of fatalities on the ground as per a machine learning model. Each data point corresponds to a single observation from either the training or testing dataset. The proximity of the points to the diagonal line serves as an indicator of the model's prediction accuracy, with points closer to the line implying

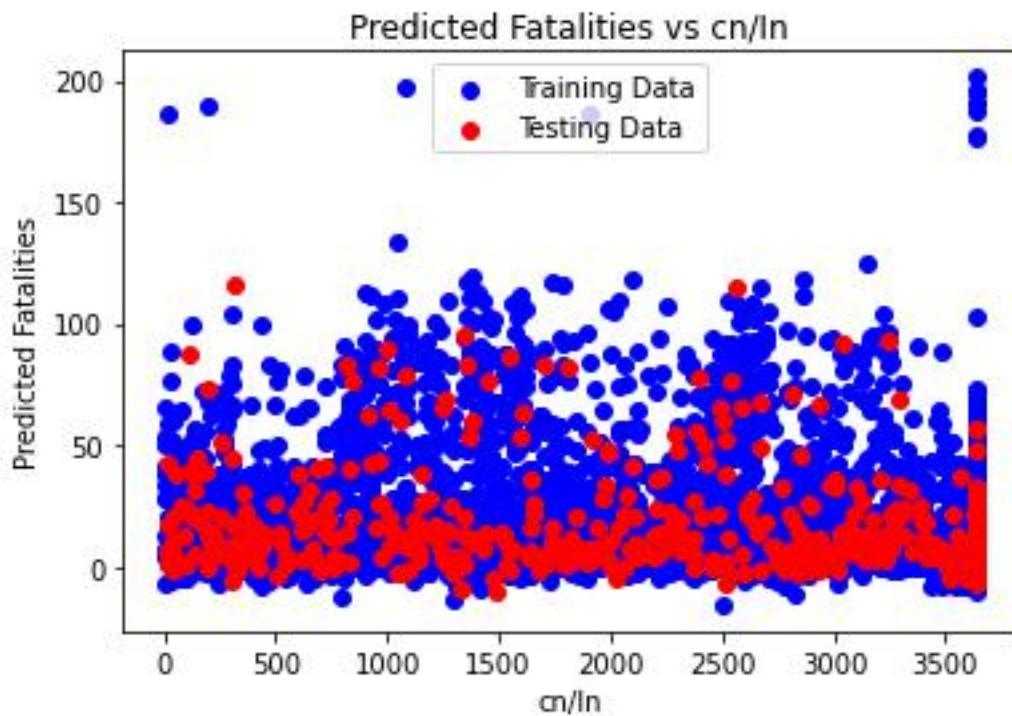
more accurate predictions. However, the scattered distribution around the diagonal suggests less precise predictions. For instance, some data points indicate a prediction of 10 fatalities, whereas the actual count stands at 30, while others show a prediction of 40 fatalities with only 10 fatalities on the ground. It's essential to acknowledge that this representation offers only a singular perspective, and the model's efficacy may fluctuate based on the dataset used. Furthermore, limitations such as differing scale axes, absence of data distribution depiction, and lack of error bars to signify prediction uncertainties underscore the necessity for additional evaluation methods to assess the model's accuracy and generalizability comprehensively.



The plot provided depicts the correlation between predicted fatalities and the number of individuals on board (Aboard) for flights across two datasets: training data and testing data. The red line signifies the model's predicted fatalities, while the blue line represents the actual fatalities. Ideally, data points would align precisely along the diagonal line, indicative of flawless predictions. However, the observed dispersion around this line signifies the model's occasional inaccuracies.

Specifically, concerning the training data, a notable concentration of red points lies closer to the diagonal compared to their blue counterparts from the testing data. This discrepancy suggests a relatively superior performance of the model on the training set. Additionally, the presence of scattered points both above and below the diagonal line implies instances of both overestimation and underestimation of fatalities by the model across both datasets.

For instance, at a value of 100 individuals aboard, the model may predict 50 fatalities (red line), whereas the actual count might stand at 20 (blue line). This exemplifies the model's tendency to misestimate fatalities across the observed datasets. This shows a linear equation.

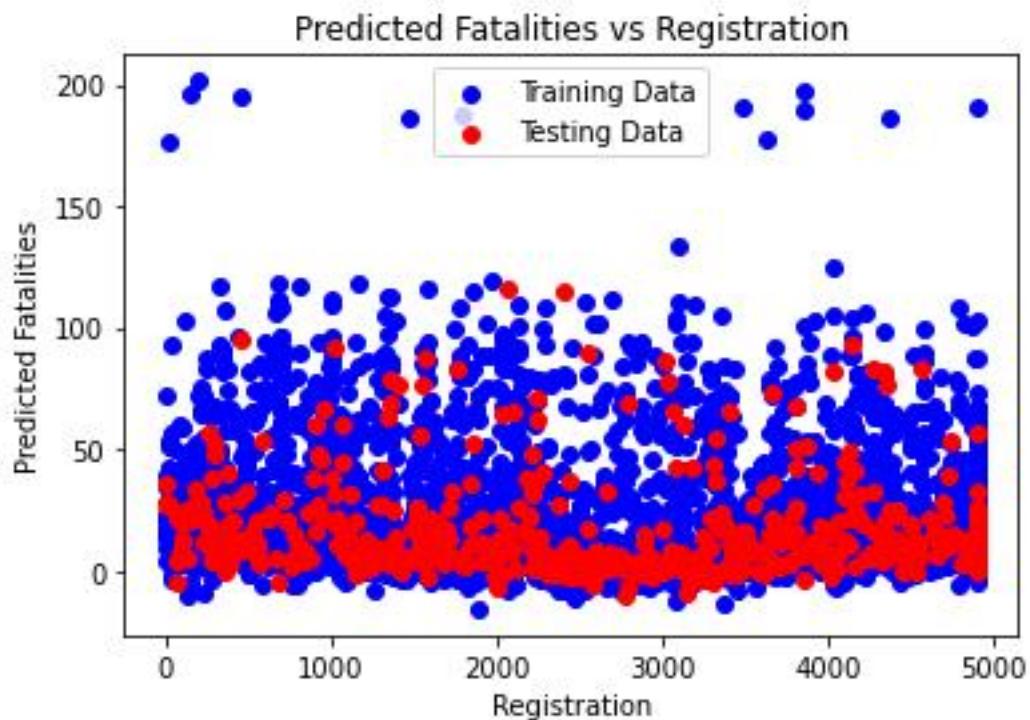


Based on the image provided, the plot illustrates the association between predicted fatalities and the number of individuals on board (cn/ln) for flights within two datasets: the training data and the testing data. The red line denotes the model's predicted fatalities, while the blue line portrays the actual fatalities. Ideally, data points would align precisely along the diagonal line, indicating flawless predictions. However, the dispersion of points around this line signifies the model's occasional inaccuracies.

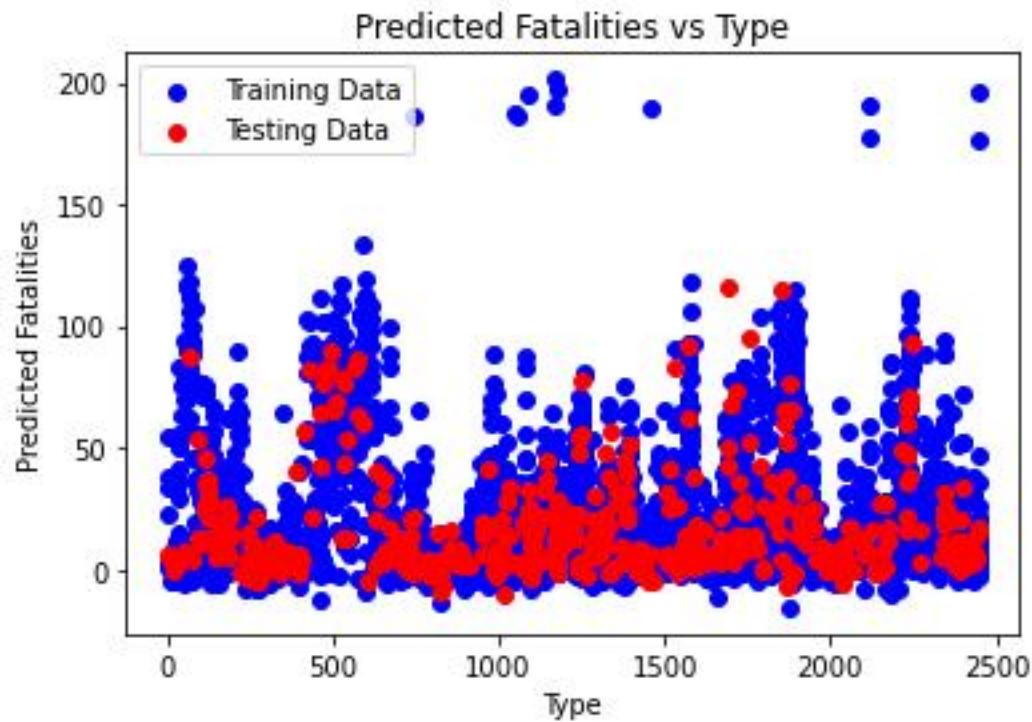
Several specific observations can be gleaned from the plot. Firstly, concerning the training data, a notable concentration of red points lies closer to the diagonal line in comparison to their blue counterparts from the testing data. This discrepancy implies a relatively superior performance of the model on the training set. Additionally, the presence of scattered points both above and below the diagonal line suggests instances of both overestimation and underestimation of fatalities by the model across both datasets.

For instance, at a value of 1000 individuals on board, the model may predict 50 fatalities (red line), whereas the actual count might stand at 20 (blue line). This exemplifies the model's tendency to misestimate fatalities across the observed datasets.

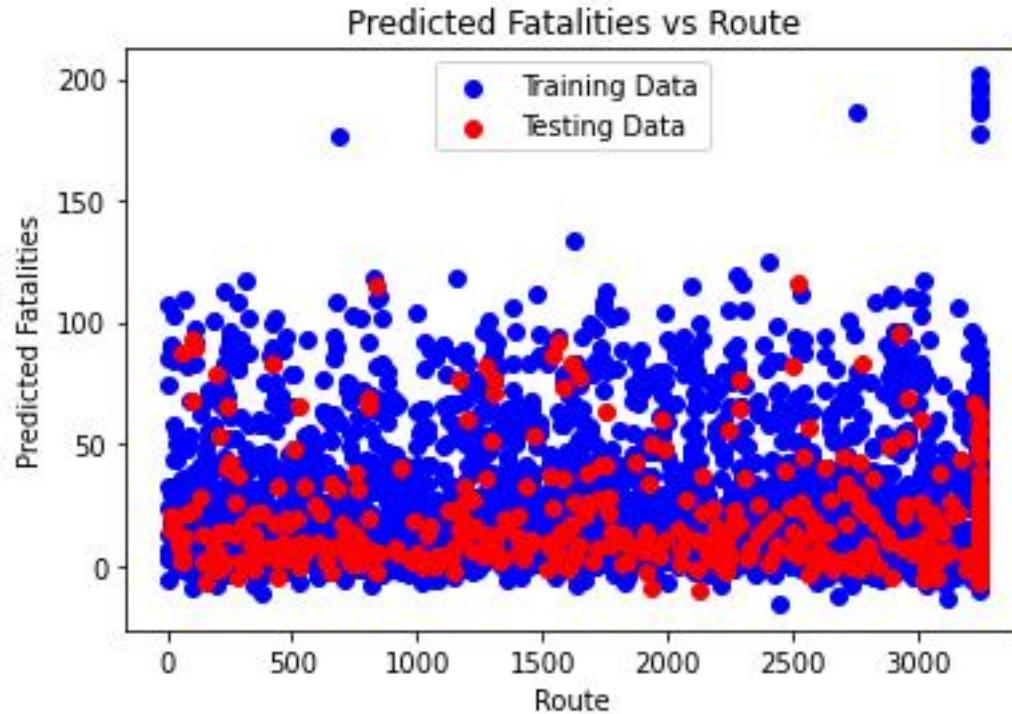
In summary, while the plot suggests that the model may have the capacity to predict the number of fatalities in aircraft accidents, its accuracy is not infallible, and it may exhibit both underestimation and overestimation tendencies in certain instances. It is imperative to acknowledge that this preliminary analysis is based on a single plot, and a more comprehensive evaluation of the model's performance would be essential before drawing any definitive conclusions regarding its real-world efficacy.



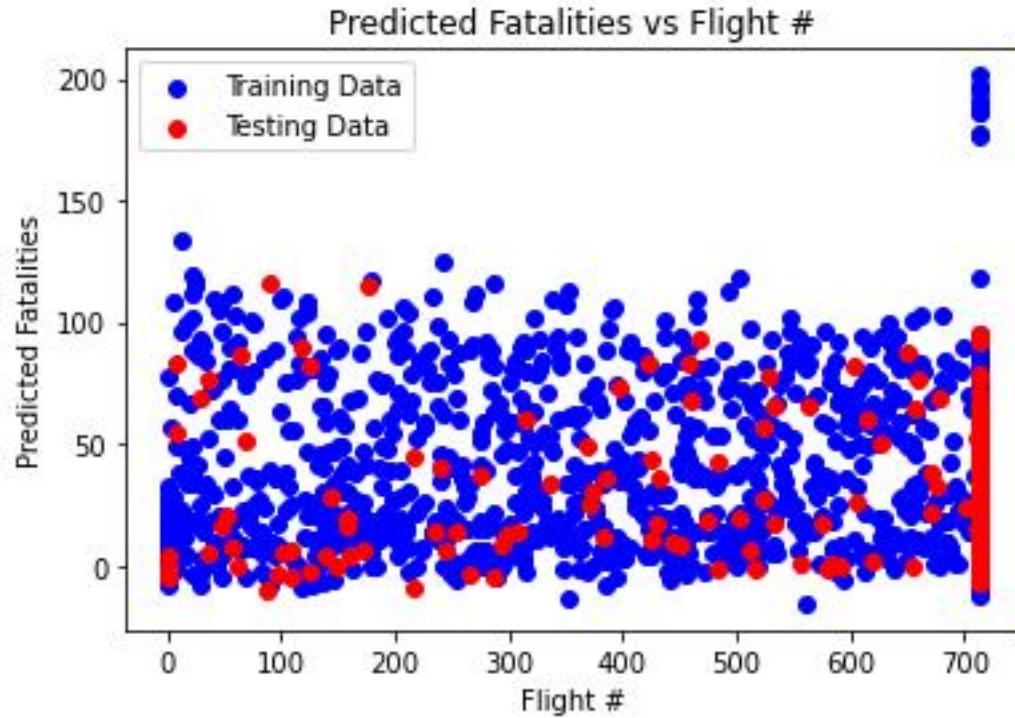
The scatter plot titled "Predicted Fatalities vs Registration" illustrates the relationship between the number of aircraft registrations and the predicted number of fatalities. Data points, representing both training and testing data, predominantly cluster within the range of 0 to approximately 150 predicted fatalities, with a higher density observed at lower levels of predicted fatalities. The x-axis denotes the quantity of aircraft registrations spanning from 0 to 5000, while the y-axis represents predicted fatalities ranging from 0 to 200. A discernible trend suggests that as the count of registrations increases, predicted fatalities remain relatively constant, albeit with a slight increase in variability. However, this interpretation provides a simplified overview, and a comprehensive analysis may entail consideration of additional intricate factors related to aircraft safety and fatality prediction.



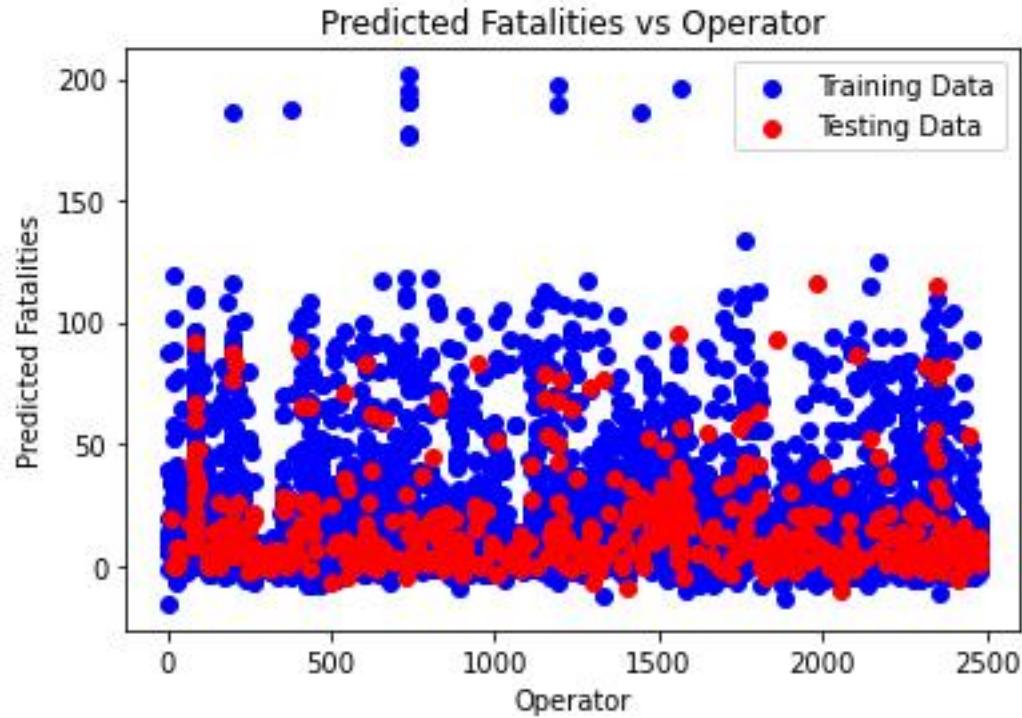
The provided scatter plot compares predicted fatalities with different types of aircraft, where the x-axis represents the "Type," likely denoting specific aircraft categories, albeit unlabeled in the provided data. The y-axis depicts "Predicted Fatalities," with two distinct sets of data represented by red and blue dots. Although the limited data hinders a precise interpretation of the relationship between the variables, it is evident that a considerable range of predicted fatalities exists across various aircraft types. Notably, certain aircraft types exhibit higher predicted fatality counts than others. However, it's imperative to recognize that these predictions are speculative, and actual fatality counts may deviate from those indicated on the plot.



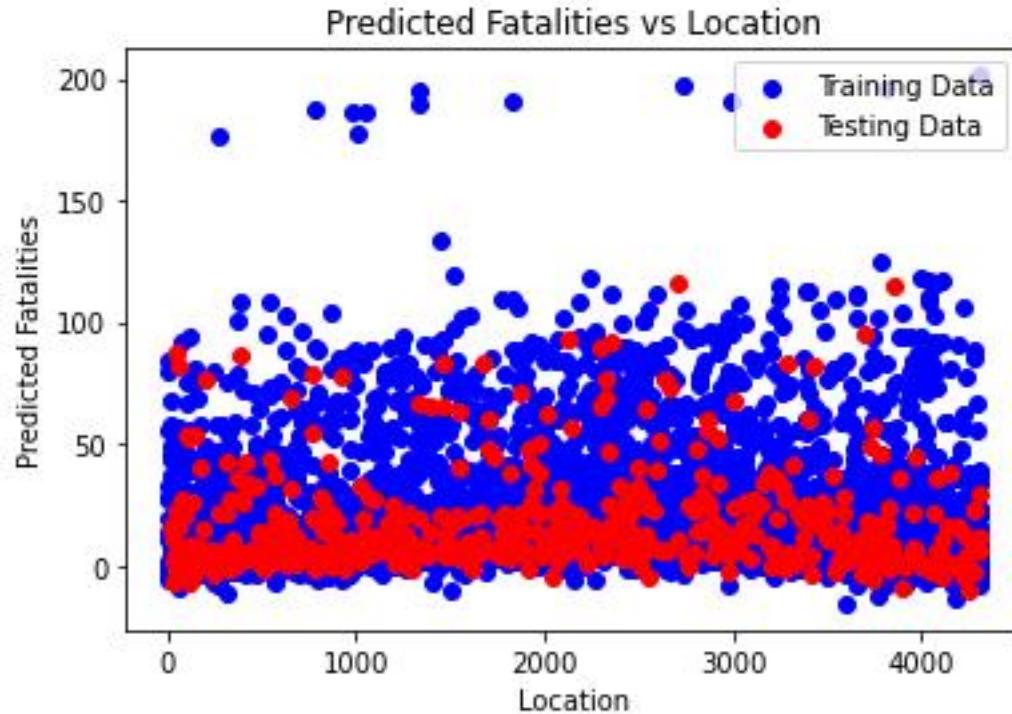
The scatter plot provided depicts a comparison between predicted fatalities and route data categorized by aircraft. The x-axis represents the routes, while the y-axis indicates the predicted fatalities. Two distinct datasets are illustrated by red and blue dots, signifying training and route data, respectively. Despite the constrained dataset, discerning a precise relationship between the variables proves challenging. Nevertheless, it is evident that a broad spectrum of predicted fatalities is observed across various routes, with certain routes exhibiting higher predicted fatality rates than others. It is crucial to emphasize that these predictions are speculative, and actual fatality counts may deviate from those indicated on the plot.



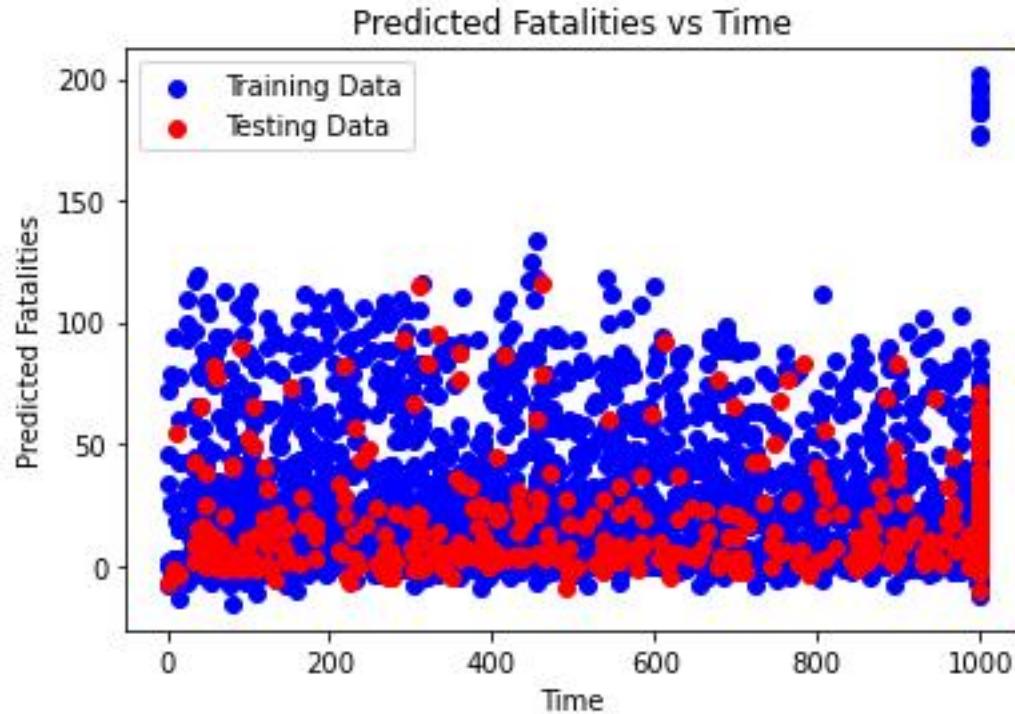
The provided scatter plot juxtaposes predicted fatalities against flight numbers, as indicated by the respective text labels on the axes. While the precise modeling context cannot be definitively discerned from the image alone, the plot seemingly showcases the outcomes of a predictive model estimating fatalities for individual flights. The x-axis denotes "Flight #," presumed to represent unique identifiers for each flight, while the y-axis signifies "Predicted Fatalities." Two distinct datasets, represented by red and blue dots, are distinguished as training and testing data, respectively, as per the text annotation atop the plot. From the available data, several observations emerge: Firstly, the predicted fatality counts appear notably higher for the training data in comparison to the testing data, hinting at potential overfitting of the model to the training dataset. This phenomenon suggests that the model may have learned specific patterns inherent in the training data, rendering it less generalizable to unseen data. Additionally, a wide variability in predicted fatalities is evident within both training and testing datasets, indicating the model's propensity to predict a diverse range of potential outcomes for each flight. Crucially, it is imperative to acknowledge that the presented predictions are speculative, and the actual fatality counts may diverge from those depicted on the plot. A thorough assessment of the model's predictive accuracy necessitates the incorporation of additional data and rigorous evaluation methodologies.



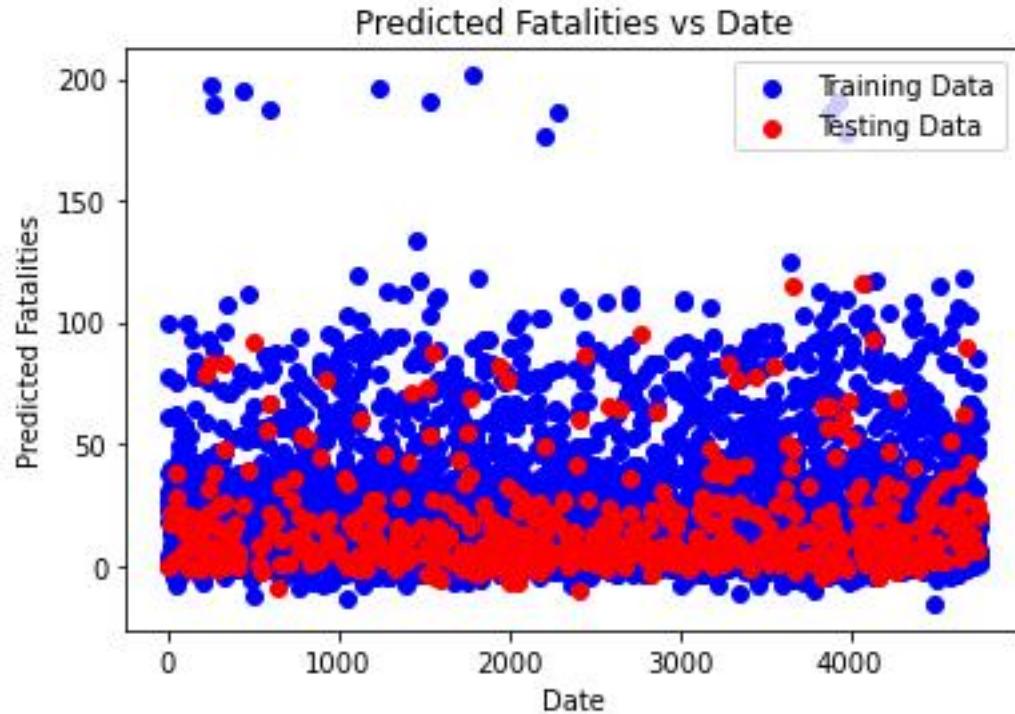
The provided scatter plot delineates a comparison between predicted fatalities and operator training data. The x-axis portrays the quantity of "Operator Training Data," while the y-axis illustrates "Predicted Fatalities." It is imperative to underscore that the displayed data merely illustrates a correlation and does not establish causation; a higher quantity of training data for a particular operator does not inherently imply a greater incidence of fatalities. Potential interpretations of the plot include a positive correlation between the volume of training data and the predicted fatality count, indicative of operators navigating more complex routes or operating in hazardous conditions. Conversely, the plot may also indicate an absence of correlation between the variables, suggesting that the amount of training data does not significantly influence the predicted fatality count. However, without comprehensive insights into the dataset and the underlying predictive model, drawing definitive conclusions regarding the relationship between operator training data and predicted fatalities remains challenging.



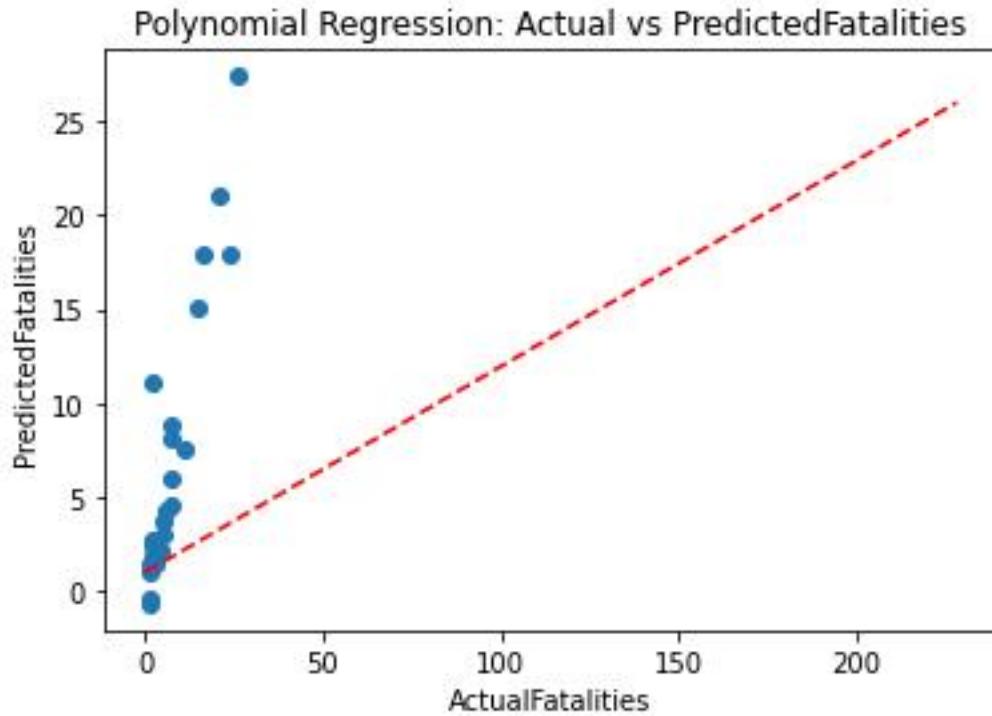
The presented scatter plot contrasts predicted fatalities with aircraft location, with the x-axis denoting location and the y-axis representing predicted fatalities. From the limited dataset provided, several observations can be inferred: Firstly, a diverse spectrum of predicted fatalities is evident across various locations, indicative of the model's propensity to anticipate a broad range of potential outcomes for each location. However, discerning a definitive relationship between location and predicted fatalities proves challenging based solely on the plot. It remains uncertain whether a clear correlation exists between these variables. Importantly, the plot underscores that the depicted predictions are speculative, and the actual fatality count may deviate from the illustrated values. Thus, comprehensive evaluation of the model's predictive accuracy necessitates the incorporation of additional data.



The provided plot offers a comparison of predicted fatalities between training and testing data, without specifying the aircraft type to which the data pertains. Notably, the plot represents only a limited sample of the dataset and may not adequately reflect the entire population. Observations gleaned from the plot reveal several trends: Firstly, the red line, symbolizing the expected number of fatalities, exhibits a general decreasing trend over time, implying the model's anticipation of a decline in fatalities over the observed period. Conversely, the predicted fatalities, represented by the blue line, demonstrate greater variability compared to the red line, indicating heightened uncertainty in the model's predictions. Moreover, the intermittent positioning of the blue line above and below the red line underscores the model's occasional inaccuracies in prediction. It is imperative to emphasize the importance of consulting with a qualified aviation expert to gain a comprehensive understanding of the data and the underlying model.

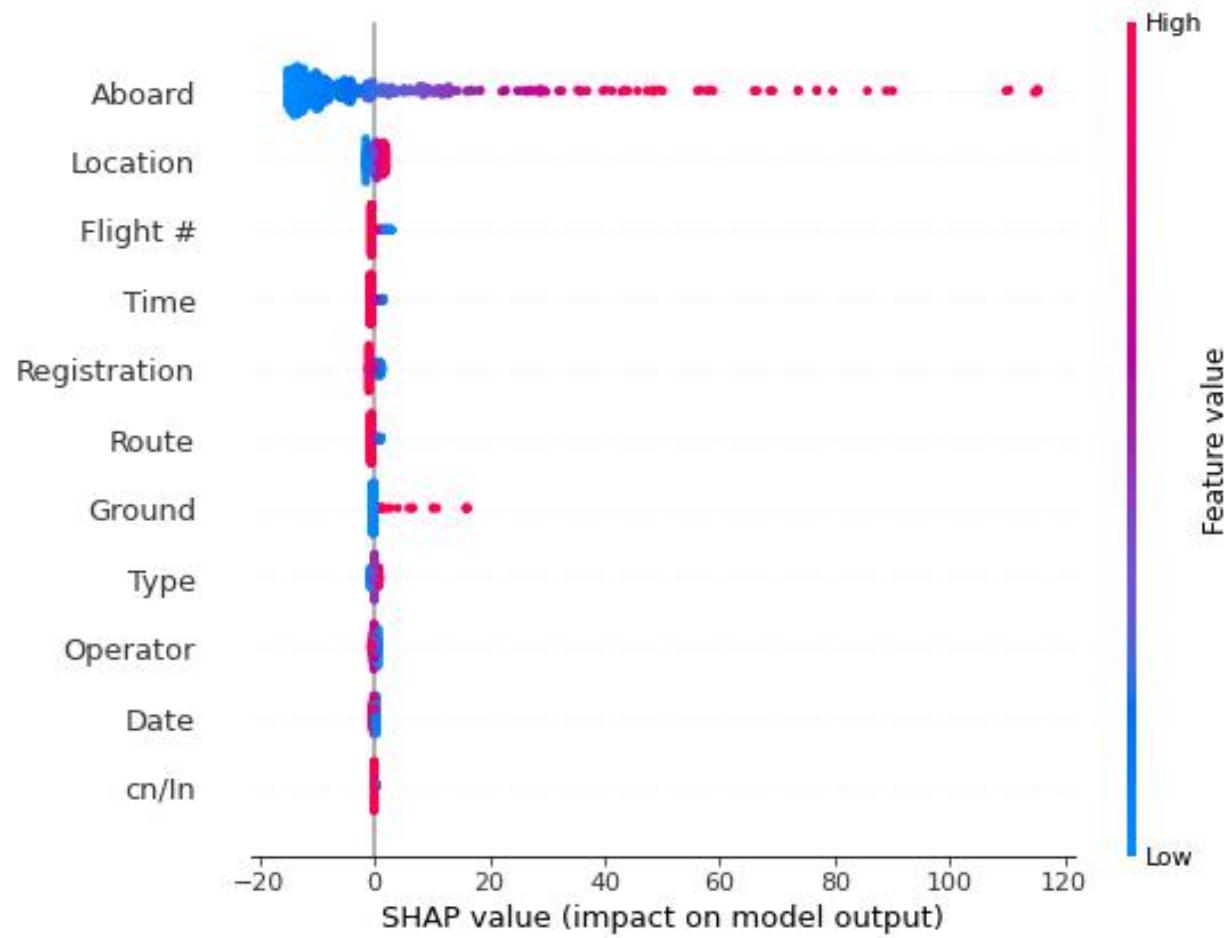


The provided scatter plot exhibits the relationship between the "Date" and "Predicted Fatalities," with the x-axis representing dates and the y-axis denoting predicted fatalities. The plot encompasses two distinct datasets. Noteworthy observations from the plot entail a subtle downward trajectory observed in the training data points, indicating the model's anticipation of a decline in fatalities over time. Similarly, the testing data points display a general downward trend, albeit with greater dispersion. However, it is crucial to highlight that the testing data points exhibit more pronounced deviations from the red line compared to the training data points, suggesting potential inaccuracies in the model's predictions when extrapolated to unseen data.



The scatter plot titled “Polynomial Regression: Actual vs Predicted Fatalities” depicts the relationship between **actual fatalities** and **predicted fatalities** related to aircraft incidents. Here are the key points:

- **Data Points:**
 - The plot contains blue dots representing individual data points.
 - These data points are primarily concentrated at the lower end of both axes (around 0-50 actual fatalities).
- **Regression Line:**
 - The red dashed line represents a **polynomial regression model**.
 - As actual fatalities increase, the prediction accuracy improves.
 - Initially, the model tends to **underestimate** fatalities, but it becomes more accurate as actual fatalities rise.
- **Axes:**
 - The x-axis represents **actual fatalities**, ranging from 0 to 200.
 - The y-axis represents **predicted fatalities**, ranging from 0 to 25.



Functions of 'Sum of fatalities':

Certainly, breaking down the columns based on the provided data:

1. Year: The year in which the aviation incident occurred.
2. Quarter: The quarter within the year when the incident took place.
3. Month: The specific month when the incident occurred.
4. Day: The day of the month when the incident occurred.
5. Country/Region: The country or region where the incident happened.
6. Aircraft Manufacturer: The company that manufactured the aircraft involved in the incident.
7. Aircraft: The specific model or type of the aircraft involved in the incident.
8. Location: The place where the incident occurred.
9. Operator: The entity or organization that operated or owned the aircraft involved in the incident.
10. Sum of Ground: The count of ground fatalities or casualties resulting from the incident.
11. Sum of Fatalities (air): The total number of fatalities onboard the aircraft.
12. Sum of Aboard: The total number of individuals (including crew and passengers) aboard the aircraft during the incident.

These columns provide details regarding the time, location, entities involved (manufacturer, operator), and casualties (both on the ground and aboard the aircraft) for various aviation incidents spanning different years, countries, and aircraft types. This information is crucial for studying historical aviation safety, understanding patterns in incidents, and identifying factors contributing to fatalities in aviation.

PREDICTED EQUATIONS :

ENCODING CATEGORICAL VARIABLE

Equation: Sum of Fatalities (air)= -4.734409719 + -1.256143916 * Quarter + 0.378578439 * Month + 0.293498924 * Day + -0.020239499 * Country/Region + -0.025999646 * Aircraft Manufacturer + 0.004670940 * Aircraft + 0.005220585 * Location + 0.004806289 * Operator + 0.552992536 * Sum of Ground + 0.641383729 * Sum of Aboard + 0.000091967 * Year² + -0.002210911 * Year^{1*Quarter¹} + -0.002906

409 * Year^1*Month^1 + 0.000375264 * Year^1*Day^1 + -0.000033801 * Year^1*Country/Region^1 + -0.000086565 * Year^1*Aircraft Manufacturer^1 + 0.000014323 * Year^1*Aircraft^1 + 0.000012915 * Year^1*Location^1 + 0.000017352 * Year^1*Operator^1 + -0.005096351 * Year^1*Sum of Ground^1 + 0.000264105 * Year^1*Sum of Aboard^1 + 0.207766397 * Quarter^2 + -0.090582774 * Quarter^1*Month^1 + -0.019157423 * Quarter^1*Day^1 + 0.002898321 * Quarter^1*Country/Region^1 + 0.005660072 * Quarter^1*Aircraft Manufacturer^1 + -0.000353540 * Quarter^1*Aircraft^1 + -0.000156953 * Quarter^1*Location^1 + 0.000209025 * Quarter^1*Operator^1 + 0.036216233 * Quarter^1*Sum of Ground^1 + -0.011895667 * Quarter^1*Sum of Aboard^1 + 0.006800480 * Month^2 + 0.002692328 * Month^1*Day^1 + -0.000486706 * Month^1*Country/Region^1 + -0.001089436 * Month^1*Aircraft Manufacturer^1 + -0.000050165 * Month^1*Aircraft^1 + 0.000065554 * Month^1*Location^1 + -0.000097930 * Month^1*Operator^1 + 0.015312184 * Month^1*Sum of Ground^1 + 0.019374297 * Month^1*Sum of Aboard^1 + -0.002259210 * Day^2 + -0.000157502 * Day^1*Country/Region^1 + 0.000480718 * Day^1*Aircraft Manufacturer^1 + -0.000123030 * Day^1*Aircraft^1 + -0.000034216 * Day^1*Location^1 + -0.000030410 * Day^1*Operator^1 + -0.002844896 * Day^1*Sum of Ground^1 + -0.000372378 * Day^1*Sum of Aboard^1 + 0.000054288 * Country/Region^2 + 0.000013725 * Country/Region^1*Aircraft Manufacturer^1 + -0.000001089 * Country/Region^1*Aircraft^1 + 0.000000446 * Country/Region^1*Location^1 + -0.000006455 * Country/Region^1*Operator^1 + 0.000174331 * Country/Region^1*Sum of Ground^1 + 0.000046936 * Country/Region^1*Sum of Aboard^1 + -0.000015053 * Aircraft Manufacturer^2 + 0.00006470 * Aircraft Manufacturer^1*Aircraft^1 + 0.000002184 * Aircraft Manufacturer^1*Location^1 + 0.000002746 * Aircraft Manufacturer^1*Operator^1 + 0.001655370 * Aircraft Manufacturer^1*Sum of Ground^1 + 0.000123509 * Aircraft Manufacturer^1*Sum of Aboard^1 + -0.000000536 * Aircraft^2 + -0.00000180 * Aircraft^1*Location^1 + -0.000000877 * Aircraft^1*Operator^1 + -0.000266110 * Aircraft^1*Sum of Ground^1 + -0.000014209 * Aircraft^1*Sum of Aboard^1 + -0.000001451 * Location^2 + -0.00000255 * Location^1*Operator^1 + -0.000021202 * Location^1*Sum of Ground^1 + 0.000041857 * Location^1*Sum of Aboard^1 + -0.000000744 * Operator^2 + -0.000107245 * Operator^1*Sum of Ground^1 + 0.000015899 * Operator^1*Sum of Aboard^1 + -0.009238076 * Sum of Ground^2 + 0.009311926 * Sum of Ground^1*Sum of Aboard^1 + -0.001869769 * Sum of Aboard^2

DEGREE-3

Equation: Sum of Fatalities (air)= 3.294252016 + -4.580268923 * Quarter + 0.269998697 * Month + 0.100622360 * Day + 0.006406774 * Country/Region + -0.115462611 * Aircraft Manufacturer + 0.008800900 * Aircraft + -0.014894548 * Location + -0.012235498 * Operator + -5.724437028 * Sum of Ground + -0.005764783 * Sum of Aboard + -0.007480034 * Year^2 + 0.007415311 * Year^1*Quarter^1 + 0.000336293 * Year^1*Month^1 + -0.007012786 * Year^1*Day^1 + -0.000671557 * Year^1*Country/Region^1 + -0.001155017 * Year^1*Aircraft Manufacturer^1 + 0.000175816 * Year^1*Aircraft^1 + -0.000014181 * Year^1*Location^1 + -0.000041746 * Year^1*Operator^1 + 0.038188129 * Year^1*Sum of Ground^1 + 0.001162823 * Year^1*Sum of Aboard^1 + 4.403521939 * Quarter^2 + -0.603633976 * Quarter^1*Month^1 + -0.320481477 * Quarter^1*Day^1 + 0.015469689 * Quarter^1*Country/Region^1 + -0.035434086 * Quarter^1*Aircraft Manufacturer^1 + 0.006081978 * Quarter^1*Aircraft^1 + 0.000722057 * Quarter^1*Location^1 + 0.000501514 * Quarter^1*Operator^1 + -1.110591295 * Quarter^1*Sum of Ground^1 + 0.025570861 * Quarter^1*Sum of Aboard^1 + 0.380593967 * Month^2 + -0.045574132 * Month^1*Day^1 + 0.000889413 * Month^1*Country/Region^1 + 0.013477635 * Month^1*Aircraft Manufacturer^1 + -0.002062547 * Month^1*Aircraft^1 + -0.000485049 * Month^1*Location^1 + -0.000415642 * Month^1*Operator^1 + -0.094551600 * Month^1*Sum of Ground^1 + -0.010663538 * Month^1*Sum of Aboard^1 + -0.005293564 * Day^2 + -0.000942899 * Day^1*Country/Region^1 + 0.001493716 * Day^1*Aircraft Manufacturer^1 + 0.000116374 * Day^1*Aircraft^1 + 0.000082569 * Day^1*Location^1 + 0.000117847 * Day^1*Operator^1 + 0.299523587 * Day^1*Sum of Ground^1 + 0.020884254 * Day^1*Sum of Aboard^1 + 0.000006937 * Country/Region^2 + 0.000411943 * Country/Region^1*Aircraft Manufacturer^1 + 0.000010466 * Country/Region^1*Location^1 + -0.000010743 * Country/Region^1*Operator^1 + -0.006707112 * Country/Region^1*Sum of Ground^1 + -0.000369696 * Country/Region^1*Sum of Aboard^1 + -0.001047837 * Aircraft Manufacturer^2 + 0.

000462863 * Aircraft Manufacturer^1*Aircraft^1 + 0.000007209 * Aircraft Manufacturer^1*Location^1 + 0.000040737 * Aircraft Manufacturer^1*Operator^1 + 0.110138424 * Aircraft Manufacturer^1*Sum of Ground^1 + -0.008915604 * Aircraft Manufacturer^1*Sum of Aboard^1 + -0.000038687 * Aircraft^2 + -0.000001908 * Aircraft^1*Location^1 + -0.000007704 * Aircraft^1*Operator^1 + -0.017185908 * Aircraft^1*Sum of Ground^1 + 0.001577146 * Aircraft^1*Sum of Aboard^1 + 0.000006700 * Location^2 + 0.000000634 * Location^1*Operator^1 + 0.001853335 * Location^1*Sum of Ground^1 + 0.000290508 * Location^1*Sum of Aboard^1 + 0.000011266 * Operator^2 + 0.003683570 * Operator^1*Sum of Ground^1 + 0.000250971 * Operator^1*Sum of Aboard^1 + -0.073184197 * Sum of Ground^2 + -0.006271632 * Sum of Ground^1*Sum of Aboard^1 + 0.001031744 * Sum of Aboard^2 + 0.000034412 * Year^3 + -0.000138101 * Year^2*Quarter^1 + -0.000001537 * Year^2*Month^1 + 0.000043304 * Year^2*Day^1 + 0.000001791 * Year^2*Country/Region^1 + 0.0000011501 * Year^2*Aircraft Manufacturer^1 + -0.000001977 * Year^2*Aircraft^1 + 0.000000054 * Year^2*Location^1 + 0.000000214 * Year^2*Operator^1 + -0.000431995 * Year^2*Sum of Ground^1 + -0.000027198 * Year^2*Sum of Aboard^1 + 0.001035408 * Year^1*Quarter^2 + 0.003963009 * Year^1*Quarter^1*Month^1 + 0.000828436 * Year^1*Quarter^1*Day^1 + -0.000062146 * Year^1*Quarter^1*Country/Region^1 + 0.000034098 * Year^1*Quarter^1*Aircraft Manufacturer^1 + -0.000017214 * Year^1*Quarter^1*Aircraft^1 + 0.000003229 * Year^1*Quarter^1*Location^1 + 0.000003399 * Year^1*Quarter^1*Operator^1 + -0.000971659 * Year^1*Quarter^1*Sum of Ground^1 + -0.000338560 * Year^1*Quarter^1*Sum of Aboard^1 + -0.000840231 * Year^1*Month^2 + -0.000219622 * Year^1*Month^1*Day^1 + 0.000025184 * Year^1*Month^1*Country/Region^1 + 0.00040499 * Year^1*Month^1*Aircraft Manufacturer^1 + -0.000006951 * Year^1*Month^1*Aircraft^1 + 0.000001498 * Year^1*Month^1*Location^1 + -0.000001908 * Year^1*Month^1*Operator^1 + 0.007953058 * Year^1*Month^1*Sum of Ground^1 + -0.000240228 * Year^1*Month^1*Sum of Aboard^1 + -0.00087053 * Year^1*Day^2 + 0.000011276 * Year^1*Day^1*Country/Region^1 + 0.000012420 * Year^1*Day^1*Aircraft Manufacturer^1 + -0.000003065 * Year^1*Day^1*Aircraft^1 + 0.000000586 * Year^1*Day^1*Location^1 + 0.000000026 * Year^1*Day^1*Operator^1 + -0.002084671 * Year^1*Day^1*Sum of Ground^1 + 0.000071313 * Year^1*Day^1*Sum of Aboard^1 + 0.000000486 * Year^1*Country/Region^2 + -0.000000868 * Year^1*Country/Region^1*Aircraft Manufacturer^1 + 0.000000213 * Year^1*Country/Region^1*Aircraft^1 + -0.000000138 * Year^1*Country/Region^1*Location^1 + 0.000000099 * Year^1*Country/Region^1*Operator^1 + 0.000100125 * Year^1*Country/Region^1*Sum of Ground^1 + -0.000002119 * Year^1*Country/Region^1*Sum of Aboard^1 + -0.000002505 * Year^1*Aircraft Manufacturer^2 + 0.000000547 * Year^1*Aircraft Manufacturer^1*Aircraft^1 + -0.000000132 * Year^1*Aircraft Manufacturer^1*Location^1 + 0.000000001 * Year^1*Aircraft Manufacturer^1*Operator^1 + 0.000337039 * Year^1*Aircraft Manufacturer^1*Sum of Ground^1 + 0.000002264 * Year^1*Aircraft Manufacturer^1*Sum of Aboard^1 + -0.000000019 * Year^1*Aircraft^2 + 0.000000027 * Year^1*Aircraft^1*Location^1 + 0.000000017 * Year^1*Aircraft^1*Operator^1 + -0.000052199 * Year^1*Aircraft^1*Sum of Ground^1 + -0.000000151 * Year^1*Aircraft^1*Sum of Aboard^1 + 0.000000001 * Year^1*Location^2 + 0.000000002 * Year^1*Location^1*Operator^1 + 0.000000397 * Year^1*Location^1*Sum of Ground^1 + 0.000000661 * Year^1*Location^1*Sum of Aboard^1 + -0.000000018 * Year^1*Operator^2 + -0.000014677 * Year^1*Operator^1*Sum of Ground^1 + 0.000000592 * Year^1*Operator^1*Sum of Aboard^1 + 0.001002758 * Year^1*Sum of Ground^2 + -0.000656386 * Year^1*Sum of Ground^1*Sum of Aboard^1 + 0.000022221 * Year^1*Sum of Aboard^2 + -0.868813882 * Quarter^3 + -0.152253411 * Quarter^2*Month^1 + 0.037182582 * Quarter^2*Day^1 + -0.000883406 * Quarter^2*Country/Region^1 + -0.001090994 * Quarter^2*Aircraft Manufacturer^1 + -0.000120292 * Quarter^2*Aircraft^1 + 0.000349801 * Quarter^2*Location^1 + -0.000014246 * Quarter^2*Operator^1 + 0.066740048 * Quarter^2*Sum of Ground^1 + -0.013915159 * Quarter^2*Sum of Aboard^1 + 0.051084280 * Quarter^1*Month^2 + 0.012618072 * Quarter^1*Month^1*Day^1 + 0.000146208 * Quarter^1*Month^1*Country/Region^1 + 0.001951011 * Quarter^1*Month^1*Aircraft Manufacturer^1 + -0.000297899 * Quarter^1*Month^1*Aircraft^1 + -0.000122508 * Quarter^1*Month^1*Location^1 + 0.000146064 * Quarter^1*Month^1*Operator^1 + 0.065948167 * Quarter^1*Month^1*Sum of Ground^1 + 0.004872553 * Quarter^1*Month^1*Sum of Aboard^1 + 0.000064788 * Quarter^1*Day^2 + 0.000118282 * Quarter^1*Day^1*Country/Region^1 + 0.001345371 * Quarter^1*Day^1*Aircraft Manufacturer^1 + -0.000223530 * Quarter^1*Day^1*Aircraft^1 + 0.000024994 * Quarter^1*Day^1*Location^1 + 0.000044066 * Quarter^1*Day^1*Operator^1 + 0.0418

01090 * Quarter^1*Day^1*Sum of Ground^1 + -0.001019474 * Quarter^1*Day^1*Sum of Aboard^1 + -0.000019994 * Quarter^1*Country/Region^2 + 0.000025088 * Quarter^1*Country/Region^1*Aircraft Manufacturer^1 + -0.000003990 * Quarter^1*Country/Region^1*Aircraft^1 + -0.000001557 * Quarter^1*Country/Region^1*Location^1 + -0.000000905 * Quarter^1*Country/Region^1*Operator^1 + 0.003974810 * Quarter^1*Country/Region^1*Sum of Ground^1 + 0.000216361 * Quarter^1*Country/Region^1*Sum of Aboard^1 + -0.000019187 * Quarter^1*Aircraft Manufacturer^2 + 0.000002685 * Quarter^1*Aircraft Manufacturer^1*Aircraft^1 + -0.000001936 * Quarter^1*Aircraft Manufacturer^1*Location^1 + -0.000006423 * Quarter^1*Aircraft Manufacturer^1*Operator^1 + -0.014564702 * Quarter^1*Aircraft Manufacturer^1*Sum of Ground^1 + 0.001135942 * Quarter^1*Aircraft Manufacturer^1*Sum of Aboard^1 + 0.000000350 * Quarter^1*Aircraft^2 + 0.000000172 * Quarter^1*Aircraft^1*Location^1 + 0.000000975 * Quarter^1*Aircraft^1*Operator^1 + 0.002015200 * Quarter^1*Aircraft^1*Sum of Ground^1 + -0.000152619 * Quarter^1*Aircraft^1*Sum of Aboard^1 + -0.000000013 * Quarter^1*Location^2 + -0.00000170 * Quarter^1*Location^1*Operator^1 + 0.000116774 * Quarter^1*Location^1*Sum of Ground^1 + -0.0000050355 * Quarter^1*Location^1*Sum of Aboard^1 + -0.000000482 * Quarter^1*Operator^2 + -0.000120916 * Quarter^1*Operator^1*Sum of Ground^1 + 0.000009924 * Quarter^1*Operator^1*Sum of Aboard^1 + -0.018230827 * Quarter^1*Sum of Ground^2 + -0.005637508 * Quarter^1*Sum of Ground^1*Sum of Aboard^1 + 0.000090344 * Quarter^1*Sum of Aboard^2 + -0.032650811 * Month^3 + 0.000122163 * Month^2*Day^1 + -0.000162422 * Month^2*Country/Region^1 + -0.000564057 * Month^2*Aircraft Manufacturer^1 + 0.000131095 * Month^2*Aircraft^1 + 0.000051163 * Month^2*Location^1 + -0.000005403 * Month^2*Operator^1 + -0.031662529 * Month^2*Sum of Ground^1 + 0.000246539 * Month^2*Sum of Aboard^1 + 0.002404666 * Month^1*Day^2 + 0.000002225 * Month^1*Day^1*Country/Region^1 + -0.000235589 * Month^1*Day^1*Aircraft Manufacturer^1 + 0.000031554 * Month^1*Day^1*Aircraft^1 + -0.000011234 * Month^1*Day^1*Location^1 + -0.000027097 * Month^1*Day^1*Operator^1 + -0.004676736 * Month^1*Day^1*Sum of Ground^1 + 0.001144117 * Month^1*Day^1*Sum of Aboard^1 + -0.000000981 * Month^1*Country/Region^2 + -0.000003319 * Month^1*Country/Region^1 *Aircraft Manufacturer^1 + 0.000000553 * Month^1*Country/Region^1*Aircraft^1 + -0.000000031 * Month^1*Country/Region^1*Location^1 + 0.000000389 * Month^1*Country/Region^1*Operator^1 + 0.000109908 * Month^1*Country/Region^1*Sum of Ground^1 + -0.000026400 * Month^1*Country/Region^1*Sum of Aboard^1 + 0.000013480 * Month^1*Aircraft Manufacturer^2 + -0.000003944 * Month^1*Aircraft Manufacturer^1*Aircraft^1 + -0.000001423 * Month^1*Aircraft Manufacturer^1*Location^1 + -0.000001569 * Month^1*Aircraft Manufacturer^1*Operator^1 + 0.000827168 * Month^1*Aircraft Manufacturer^1*Sum of Ground^1 + -0.000105432 * Month^1*Aircraft Manufacturer^1*Sum of Aboard^1 + 0.0000000156 * Month^1*Aircraft^2 + 0.000000318 * Month^1*Aircraft^1*Location^1 + 0.0000000306 * Month^1*Aircraft^1*Operator^1 + -0.000306167 * Month^1*Aircraft^1*Sum of Ground^1 + 0.000003937 * Month^1*Aircraft^1*Sum of Aboard^1 + -0.000000042 * Month^1*Location^2 + 0.0000000119 * Month^1*Location^1*Operator^1 + -0.000112693 * Month^1*Location^1*Sum of Ground^1 + 0.0000008191 * Month^1*Location^1*Sum of Aboard^1 + 0.000000097 * Month^1*Operator^2 + 0.000146881 * Month^1*Operator^1*Sum of Ground^1 + -0.000006333 * Month^1*Operator^1*Sum of Aboard^1 + -0.002513600 * Month^1*Sum of Ground^2 + 0.006028598 * Month^1*Sum of Ground^1*Sum of Aboard^1 + 0.000198912 * Month^1*Sum of Aboard^2 + 0.000103938 * Day^3 + 0.000009175 * Day^2*Country/Region^1 + -0.000040214 * Day^2*Aircraft Manufacturer^1 + -0.000001822 * Day^2*Aircraft^1 + 0.00002065 * Day^2*Location^1 + 0.000000697 * Day^2*Operator^1 + -0.004592576 * Day^2*Sum of Ground^1 + -0.000223347 * Day^2*Sum of Aboard^1 + 0.000002414 * Day^1*Country/Region^2 + 0.000001763 * Day^1*Country/Region^1*Aircraft Manufacturer^1 + -0.000000460 * Day^1*Country/Region^1*Aircraft^1 + -0.0000000136 * Day^1*Country/Region^1*Location^1 + -0.000000199 * Day^1*Country/Region^1*Operator^1 + -0.000349419 * Day^1*Country/Region^1*Sum of Ground^1 + -0.000028529 * Day^1*Country/Region^1*Sum of Aboard^1 + 0.000003382 * Day^1*Aircraft Manufacturer^2 + -0.0001581 * Day^1*Aircraft Manufacturer^1*Aircraft^1 + -0.000000233 * Day^1*Aircraft Manufacturer^1*Location^1 + -0.000000875 * Day^1*Aircraft Manufacturer^1*Operator^1 + -0.002488373 * Day^1*Aircraft Manufacturer^1*Sum of Ground^1 + 0.000088568 * Day^1*Aircraft Manufacturer^1*Sum of Aboard^1 + 0.000000156 * Day^1*Aircraft^2 + 0.000000089 * Day^1*Aircraft^1*Location^1 + 0.00000015 * Day^1*Aircraft^1*Operator^1 + 0.000447339 * Day^1*Aircraft^1*Sum of Ground^1 + -0.00001639

0 * Day^1*Aircraft^1*Sum of Aboard^1 + -0.000000039 * Day^1*Location^2 + 0.000000017 * Day^1*L
ocation^1*Operator^1 + -0.000011027 * Day^1*Location^1*Sum of Ground^1 + -0.000003642 * Day^1*
*Location^1*Sum of Aboard^1 + -0.000000013 * Day^1*Operator^2 + -0.000074667 * Day^1*Operator
^1*Sum of Ground^1 + -0.000002208 * Day^1*Operator^1*Sum of Aboard^1 + 0.005139088 * Day^1*S
um of Ground^2 + -0.000203265 * Day^1*Sum of Ground^1*Sum of Aboard^1 + -0.000014645 * Day^1*
Sum of Aboard^2 + -0.000000066 * Country/Region^3 + -0.000000219 * Country/Region^2*Aircraft M
anufacturer^1 + 0.000000020 * Country/Region^2*Aircraft^1 + -0.000000002 * Country/Region^2*Loc
ation^1 + 0.000000013 * Country/Region^2*Operator^1 + 0.000020562 * Country/Region^2*Sum of G
round^1 + 0.000002592 * Country/Region^2*Sum of Aboard^1 + -0.000000495 * Country/Region^1*Ai
rcraft Manufacturer^2 + 0.000000060 * Country/Region^1*Aircraft Manufacturer^1*Aircraft^1 + -0.0
0000020 * Country/Region^1*Aircraft Manufacturer^1*Location^1 + -0.000000060 * Country/Region^
1*Aircraft Manufacturer^1*Operator^1 + -0.000061997 * Country/Region^1*Aircraft Manufacturer^1*
Sum of Ground^1 + -0.000002465 * Country/Region^1*Aircraft Manufacturer^1*Sum of Aboard^1 + 0.0
0000009 * Country/Region^1*Aircraft^2 + 0.000000001 * Country/Region^1*Aircraft^1*Location^1
+ 0.000000010 * Country/Region^1*Aircraft^1*Operator^1 + 0.000005828 * Country/Region^1*Aircra
ft^1*Sum of Ground^1 + 0.000000460 * Country/Region^1*Aircraft^1*Sum of Aboard^1 + 0.000000000
1 * Country/Region^1*Location^2 + 0.000000000 * Country/Region^1*Location^1*Operator^1 + -0.0
0001171 * Country/Region^1*Location^1*Sum of Ground^1 + 0.000000105 * Country/Region^1*Locat
ion^1*Sum of Aboard^1 + 0.000000003 * Country/Region^1*Operator^2 + -0.000002179 * Country/Re
gion^1*Operator^1*Sum of Ground^1 + -0.000000412 * Country/Region^1*Operator^1*Sum of Aboard
^1 + -0.000050635 * Country/Region^1*Sum of Ground^2 + -0.000010941 * Country/Region^1*Sum of
Ground^1*Sum of Aboard^1 + -0.000002626 * Country/Region^1*Sum of Aboard^2 + 0.000001041 * Ai
rcraft Manufacturer^3 + 0.000000063 * Aircraft Manufacturer^2*Aircraft^1 + -0.000000070 * Aircraft
Manufacturer^2*Location^1 + -0.000000104 * Aircraft Manufacturer^2*Operator^1 + 0.000054559 * Ai
rcraft Manufacturer^2*Sum of Ground^1 + 0.000006773 * Aircraft Manufacturer^2*Sum of Aboard^1 +
-0.000000110 * Aircraft Manufacturer^1*Aircraft^2 + 0.000000013 * Aircraft Manufacturer^1*Aircraft
^1*Location^1 + 0.000000013 * Aircraft Manufacturer^1*Aircraft^1*Operator^1 + -0.000028216 * Airc
raft Manufacturer^1*Aircraft^1*Sum of Ground^1 + -0.000000369 * Aircraft Manufacturer^1*Aircraft^
1*Sum of Aboard^1 + 0.000000003 * Aircraft Manufacturer^1*Location^2 + 0.000000003 * Aircraft Ma
nufacturer^1*Location^1*Operator^1 + -0.000017074 * Aircraft Manufacturer^1*Location^1*Sum of Gr
ound^1 + 0.000001667 * Aircraft Manufacturer^1*Location^1*Sum of Aboard^1 + 0.000000008 * Aircr
ft Manufacturer^1*Operator^2 + 0.000008472 * Aircraft Manufacturer^1*Operator^1*Sum of Ground
^1 + 0.000001307 * Aircraft Manufacturer^1*Operator^1*Sum of Aboard^1 + -0.001163173 * Aircraft
Manufacturer^1*Sum of Ground^2 + -0.000039880 * Aircraft Manufacturer^1*Sum of Ground^1*Sum of
Aboard^1 + -0.000018366 * Aircraft Manufacturer^1*Sum of Aboard^2 + 0.000000010 * Aircraft^3 +
-0.000000000 * Aircraft^2*Location^1 + 0.000000001 * Aircraft^2*Operator^1 + 0.000003421 * Aircraf
t^2*Sum of Ground^1 + -0.000000174 * Aircraft^2*Sum of Aboard^1 + -0.000000001 * Aircraft^1*Loca
tion^2 + -0.000000000 * Aircraft^1*Location^1*Operator^1 + 0.000002561 * Aircraft^1*Location^1*Su
m of Ground^1 + -0.000000239 * Aircraft^1*Location^1*Sum of Aboard^1 + -0.000000002 * Aircraft^1
*Operator^2 + -0.000000681 * Aircraft^1*Operator^1*Sum of Ground^1 + -0.000000209 * Aircraft^1*O
perator^1*Sum of Aboard^1 + 0.000170815 * Aircraft^1*Sum of Ground^2 + 0.000015892 * Aircraft^1*
Sum of Ground^1*Sum of Aboard^1 + 0.000002793 * Aircraft^1*Sum of Aboard^2 + -0.000000001 * Lo
cation^3 + -0.000000000 * Location^2*Operator^1 + 0.000000092 * Location^2*Sum of Ground^1 + -0.
000000071 * Location^2*Sum of Aboard^1 + -0.000000001 * Location^1*Operator^2 + -0.000000824 *
Location^1*Operator^1*Sum of Ground^1 + 0.000000011 * Location^1*Operator^1*Sum of Aboard^1
+ 0.000015504 * Location^1*Sum of Ground^2 + -0.000005638 * Location^1*Sum of Ground^1*Sum of
Aboard^1 + 0.000000158 * Location^1*Sum of Aboard^2 + -0.000000002 * Operator^3 + -0.000000814
* Operator^2*Sum of Ground^1 + -0.000000023 * Operator^2*Sum of Aboard^1 + 0.000059453 * Oper
ator^1*Sum of Ground^2 + -0.000014182 * Operator^1*Sum of Ground^1*Sum of Aboard^1 + -0.00000
0432 * Operator^1*Sum of Aboard^2 + -0.001668861 * Sum of Ground^3 + -0.000392810 * Sum of Grou
nd^2*Sum of Aboard^1 + 0.000562835 * Sum of Ground^1*Sum of Aboard^2 + -0.000015978 * Sum of
Aboard^3

PREDICTED EQUATIONS WITH ML ENCODING EVERY VALUE

Linear Equation: Sum of Fatalities (air) = (1.0) * Year + (1.0) * Quarter + (1.0) * Month + (-1.0) * Day + (-1.0) * Location + (1.0) * Sum of Ground + (-0.02)

coefficient [-8.53400223e-01 -1.70763598e-01 2.09526425e-01

-2.45828910e-02 -5.18049580e-02 8.01113672e-03 5.03393197e-03

2.96966741e-03 5.14995542e-01 6.23008266e-01 2.34086671e-04

-5.18813920e-03 -1.61670281e-03 3.69019188e-04 -3.66231242e-05

-5.91494973e-06 2.74794246e-06 8.42002072e-06 1.63364078e-05

-3.59050424e-03 6.35029664e-04 1.38187638e-01 -9.39468886e-02

-1.04953327e-02 2.19459420e-03 5.97804372e-03 -5.18946703e-04

-1.71923410e-04 2.38541665e-04 4.19734878e-02 -6.58568159e-03

2.24588099e-02 9.20211293e-03 1.55794921e-04 -6.70416732e-04

-7.62516891e-05 9.84889506e-05 -1.32131248e-04 1.80812047e-02

1.75104896e-02 -2.09831976e-03 -1.00194162e-04 5.42645945e-04

-1.32657248e-04 -3.99603783e-05 -6.72665096e-06 -4.86540417e-03

-3.95145346e-04 4.51693464e-05 3.81420222e-06 1.14340862e-06

1.07966077e-06 -4.55587546e-06 1.04057546e-04 1.24165294e-04

1.44024150e-05 2.79657858e-06 2.75634104e-06 5.49693492e-06

1.73019040e-03 2.79588994e-04 -8.64459666e-07 -1.87898445e-07

-8.09157741e-07 -2.67973719e-04 -3.68294136e-05 -1.40615342e-06

-3.40480851e-07 -6.66089954e-06 4.18735419e-05 -4.78800424e-07

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-1.91296555e-03]

intercept 0.09491632448741782

Equation: Sum of Fatalities (air)= 0.094916324 + -0.853400223 * Quarter + -0.170763598 * Month + 0.209526425 * Day + -0.024582891 * Country/Region + -0.051804958 * Aircraft Manufacturer + 0.008011137 * Aircraft + 0.005033932 * Location + 0.002969667 * Operator + 0.514995542 * Sum of Ground + 0.623008266 * Sum of Aboard + 0.000234087 * Year^2 + -0.005188139 * Year^1*Quarter^1 + -0.001616703 * Year^1*Month^1 + 0.000369019 * Year^1*Day^1 + -0.000036623 * Year^1*Country/Region^1 + -0.000005915 * Year^1*Aircraft Manufacturer^1 + 0.000002748 * Year^1*Aircraft^1 + 0.000008420 * Year^1*Location^1 + 0.000016336 * Year^1*Operator^1 + -0.003590504 * Year^1*Sum of Ground^1 + 0.000635030 * Year^1*Sum of Aboard^1 + 0.138187638 * Quarter^2 + -0.093946889 * Quarter^1*Month^1 + -0.010495333 * Quarter^1*Day^1 + 0.002194594 * Quarter^1*Country/Region^1 + 0.005978044 * Quarter^1*Aircraft Manufacturer^1 + -0.000518947 * Quarter^1*Aircraft^1 + -0.000171923 * Quarter^1*Location^1 + 0.000238542 * Quarter^1*Operator^1 + 0.041973488 * Quarter^1*Sum of Ground^1 + -0.006585682 * Quarter^1*Sum of Aboard^1 + 0.022458810 * Month^2 + 0.009202113 * Month^1*Day^1 + 0.000155795 * Month^1*Country/Region^1 + -0.000670417 * Month^1*Aircraft Manufacturer^1 + -0.000076252 * Month^1*Aircraft^1 + 0.000098489 * Month^1*Location^1 + -0.000132131 * Month^1*Operator^1 + 0.018081205 * Month^1*Sum of Ground^1 + 0.017510490 * Month^1*Sum of Aboard^1 + -0.002098320 * Day^2 + -0.000100194 * Day^1*Country/Region^1 + 0.000542646 * Day^1*Aircraft Manufacturer^1 + -0.000132657 * Day^1*Aircraft^1 + -0.000039960 * Day^1*Location^1 + -0.000006727 * Day^1*Operator^1 + -0.004865404 * Day^1*Sum of Ground^1 + -0.000395145 * Day^1*Sum of Aboard^1 + 0.000045169 * Country/Region^2 + 0.000003814 * Country/Region^1*Aircraft Manufacturer^1 + 0.000001143 * Country/Region^1*Aircraft^1 + 0.000001080 * Country/Region^1*Location^1 + -0.000004556 * Country/Region^1*Operator^1 + 0.000104058 * Country/Region^1*Sum of Ground^1 + 0.000124165 * Country/Region^1*Sum of Aboard^1 + 0.000014402 * Aircraft Manufacturer^2 + 0.000002797 * Aircraft Manufacturer^1*Aircraft^1 + 0.000002756 * Aircraft Manufacturer^1*Location^1 + 0.000005497 * Aircraft Manufacturer^1*Operator^1 + 0.001730190 * Aircraft Manufacturer^1*Sum of Ground^1 + 0.000279589 * Aircraft Manufacturer^1*Sum of Aboard^1 + -0.000000864 * Aircraft^2 + -0.000000188 * Aircraft^1*Location^1 + -0.000000809 * Aircraft^1*Operator^1 + -0.000267974 * Aircraft^1*Sum of Ground^1 + -0.000036829 * Aircraft^1*Sum of Aboard^1 + -0.000001406 * Location^2 + -0.000000340 * Location^1*Operator^1 + -0.000006661 * Location^1*Sum of Ground^1 + 0.000041874 * Location^1*Sum of Aboard^1 + -0.000000479 * Operator^2 + -0.000125994 * Operator^1*Sum of Ground^1 + 0.000009346 * Operator^1*Sum of Aboard^1 + -0.010378004 * Sum of Ground^2 + 0.008295384 * Sum of Ground^1*Sum of Aboard^1 + -0.001912966 * Sum of Aboard^2

Accuracy: 0.6990919917359075

DEGREE-3:

coefficient [5.06181327e-01 -9.10605188e+00 -1.81702954e+00 -1.22383584e-01

-2.74864723e-03 -8.47377723e-03 -4.76076700e-03 -1.07950165e-02
-8.73466483e-03 -1.02134728e+01 -1.36261164e-01 -6.90136907e-03
-2.23191570e-03 9.25721065e-03 -6.92420005e-03 -5.73726765e-04
-6.12812876e-04 9.39622986e-05 -1.70468127e-05 5.04557167e-06
6.42964899e-02 1.24339230e-03 6.69367738e+00 -2.49034703e-01
-1.96860120e-01 1.32044391e-02 -4.42419523e-02 7.01339657e-03
4.85898196e-04 8.25174712e-04 -1.21627107e+00 -4.34034018e-03
5.99798332e-01 -6.38431866e-02 1.58103477e-03 1.54563559e-02
-2.36486853e-03 -8.08219905e-04 -1.33542935e-04 4.89141768e-01
4.15494599e-02 2.78169892e-04 1.87585916e-04 -2.05677191e-03
5.09508006e-04 1.22665456e-04 2.33547675e-04 3.16371383e-01
2.08186168e-02 -3.19720497e-06 1.00074140e-04 -1.70860740e-05
1.49405861e-05 -1.73487206e-05 6.60595078e-03 -7.65199738e-04
-6.43377072e-04 3.15502960e-04 -1.74451095e-05 1.53915936e-05
1.04707815e-01 -7.75792798e-03 -2.66906091e-05 9.71487214e-07
-4.51903031e-06 -1.52858871e-02 1.40730610e-03 5.49428506e-06
1.60269464e-07 1.42236935e-03 2.95354570e-04 9.13048550e-06
3.27502724e-03 1.78294777e-04 -6.66441123e-02 -3.09295001e-03
2.61517519e-03 3.53489393e-05 -3.04353123e-05 2.17055506e-05
3.79784610e-05 2.57302810e-06 7.96253787e-06 -1.44197195e-06
-7.15637382e-08 -4.03099331e-07 -1.75227989e-04 -1.21898542e-05
5.63395421e-03 1.54831614e-03 3.55967516e-04 -2.95325953e-05
4.07997312e-06 -4.57931830e-06 3.83528670e-06 -1.30889132e-06

1.01277684e-03 -9.40730789e-04 -1.16508758e-03 -1.82107422e-04
1.44695650e-05 3.02991244e-05 -6.15158768e-06 1.47536413e-06
-2.86173965e-06 1.23973318e-03 -7.40618697e-05 -5.78333460e-05
4.61986141e-06 5.61748666e-06 -1.34410972e-06 6.92508230e-07
-1.38728832e-07 -1.90586937e-03 1.14773478e-04 5.49941354e-07
-7.46361700e-07 1.68366784e-07 -1.08058423e-07 8.55540813e-08
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-2.07047099e-08 2.54003357e-08 1.83224384e-08 1.41267056e-04
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4.53401921e-07 -8.53064447e-09 -1.24496351e-05 1.65013679e-06
8.09327747e-04 -8.94253085e-04 1.96910730e-05 -1.00603007e+00
-1.90518156e-01 2.54268904e-03 -5.35078421e-04 -1.17396718e-03
-2.65420871e-04 1.68851490e-04 -1.94968210e-04 8.71320196e-02
-2.16117683e-02 9.95961727e-03 1.42103330e-02 -1.33821972e-04
1.86885233e-03 -2.08776178e-04 -1.29471027e-05 1.94995766e-04
-5.83996601e-02 6.56900785e-03 1.11415763e-03 -1.31228916e-05
1.10702533e-03 -1.90037547e-04 7.56834994e-06 4.76422777e-05
3.31153163e-02 7.69212466e-04 -1.67650867e-05 3.19326875e-05
-4.22703450e-06 -1.94873134e-06 -8.52112120e-07 2.96681925e-03
1.98822432e-04 -7.33805606e-05 1.81698027e-05 -1.13580368e-06
-7.36034050e-07 1.56962481e-04 1.47317211e-03 -6.70202307e-07
1.56957797e-08 1.33083891e-07 1.80753759e-04 -2.09372095e-04

7.25691225e-08 -2.60219496e-07 2.09139059e-04 -2.95020013e-05
-4.70091250e-07 -7.91881858e-05 2.58308557e-05 -1.13383167e-02
-6.18229685e-03 1.49905204e-04 -3.29328805e-02 3.43857376e-04
-4.73948552e-05 -5.99710323e-04 1.03752964e-04 4.26835318e-05
-3.40573161e-05 1.10399320e-02 -2.81843557e-03 2.36221183e-03
6.15361191e-05 -3.01776377e-04 3.89352181e-05 -5.37337580e-06
-2.72985868e-05 -1.17320141e-03 6.39143900e-04 -2.55458632e-06
-3.21556530e-06 3.27322617e-07 7.13857428e-08 1.67206606e-07
5.07434566e-04 -4.99847086e-05 5.67594398e-06 -2.70487295e-06
-1.14084681e-06 -8.70885075e-07 7.72063077e-04 -9.52730010e-05
2.46902476e-07 2.98906913e-07 2.00198995e-07 -4.09032088e-04
2.28595101e-06 -3.25680889e-08 1.46777649e-07 -1.09827247e-04
5.86949837e-06 1.03777379e-07 2.39360374e-05 -7.12220950e-06
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3.82626770e-06 -6.75884111e-07 -1.07547880e-07 -2.83082247e-07
-2.92541866e-04 -1.93446976e-05 -8.84477104e-06 1.29638635e-06
4.26264461e-07 -2.37602339e-08 -1.89952378e-03 1.29470563e-04
5.71898164e-08 1.26038671e-09 2.93748925e-08 3.49376352e-04
-2.12661812e-05 -4.98833414e-08 2.74377516e-08 -1.55561272e-05
-2.18807336e-06 -3.70768415e-08 -3.61722894e-05 -2.16451925e-06
2.12805169e-03 -9.14761126e-04 -8.58709306e-05 -6.08445838e-08

-2.40586902e-08 -2.02652295e-09 -1.02890403e-08 1.72150981e-08
-1.76351184e-05 4.09458048e-06 -1.33005250e-07 2.05968663e-08
-1.68602264e-08 -2.92113744e-08 5.00533800e-05 -4.30797037e-06
1.94471420e-09 -8.70820993e-10 6.97058650e-09 -9.71175065e-06
6.52879578e-07 1.03422521e-09 1.05758372e-09 -2.97162166e-06
1.23236383e-07 3.74768538e-09 8.37859836e-07 -3.97978179e-07
2.25222025e-04 3.10430133e-05 -5.17084780e-07 3.59043932e-07
2.60435719e-07 -4.47112162e-08 -1.09280274e-07 -7.96552288e-05
9.50848610e-06 -1.16532447e-07 9.06041081e-09 1.85779734e-08
2.67874584e-05 -1.42342205e-06 2.32413153e-09 6.40143982e-09
-1.16102139e-05 1.42144663e-06 2.51122967e-09 -9.11910637e-06
9.11748029e-07 -1.16806254e-03 -1.92600442e-04 -3.07218086e-05
8.51905213e-09 -1.82608817e-10 -2.32520669e-11 -2.19722941e-06
-5.85713911e-08 -4.42877734e-10 -5.28765920e-10 1.73624116e-06
-2.00350493e-07 -8.25042701e-10 1.75629982e-06 -1.46780320e-07
1.70070710e-04 3.80337873e-05 4.69408680e-06 -6.50355991e-10
-2.79923640e-10 5.50173833e-08 -6.98531465e-08 -3.93117983e-10
-8.17973867e-07 -1.43526507e-08 2.58427575e-05 -1.12173209e-06
-6.51601055e-08 -1.96625560e-09 -7.31886783e-07 -7.31442545e-10
5.17205314e-05 -1.08115221e-05 -7.98979639e-07 -6.97900426e-04
-9.69033634e-04 6.39258106e-04 -1.31913872e-05]

intercept 7.150566376430142

Equation: Sum of Fatalities (air)= 7.150566376 + -9.106051878 * Quarter + -1.817029538 * Month + -0.122383584 * Day + -0.002748647 * Country/Region + -0.008473777 * Aircraft Manufacturer + -0.004760767 * Aircraft + -0.010795017 * Location + -0.008734665 * Operator + -10.213472818 * Sum of Ground + -0.136261164 * Sum of Aboard + -0.006901369 * Year^2 + -0.002231916 * Year^1*Quarter^1 + 0.009257211 * Year^1*Month^1 + -0.006924200 * Year^1*Day^1 + -0.000573727 * Year^1*Country/Region^1 + -0.000612813 * Year^1*Aircraft Manufacturer^1 + 0.000093962 * Year^1*Aircraft^1 + -0.000017047 * Year^1*Location^1 + 0.000005046 * Year^1*Operator^1 + 0.064296490 * Year^1*Sum of Ground^1 + 0.001243392 * Year^1*Sum of Aboard^1 + 6.693677381 * Quarter^2 + -0.249034703 * Quarter^1*Month^1 + -0.196860120 * Quarter^1*Day^1 + 0.013204439 * Quarter^1*Country/Region^1 + -0.044241952 * Quarter^1*Aircraft Manufacturer^1 + 0.007013397 * Quarter^1*Aircraft^1 + 0.000485898 * Quarter^1*Location^1 + 0.000825175 * Quarter^1*Operator^1 + -1.216271071 * Quarter^1*Sum of Ground^1 + -0.004340340 * Quarter^1*Sum of Aboard^1 + 0.599798332 * Month^2 + -0.063843187 * Month^1*Day^1 + 0.001581035 * Month^1*Country/Region^1 + 0.015456356 * Month^1*Aircraft Manufacturer^1 + -0.002364869 * Month^1*Aircraft^1 + -0.000808220 * Month^1*Location^1 + -0.000133543 * Month^1*Operator^1 + 0.489141768 * Month^1*Sum of Ground^1 + 0.041549460 * Month^1*Sum of Aboard^1 + 0.000278170 * Day^2 + 0.000187586 * Day^1*Country/Region^1 + -0.002056772 * Day^1*Aircraft Manufacturer^1 + 0.000509508 * Day^1*Aircraft^1 + 0.000122665 * Day^1*Location^1 + 0.000233548 * Day^1*Operator^1 + 0.316371383 * Day^1*Sum of Ground^1 + 0.020818617 * Day^1*Sum of Aboard^1 + -0.000003197 * Country/Region^2 + 0.000100074 * Country/Region^1*Aircraft Manufacturer^1 + -0.000017086 * Country/Region^1*Aircraft^1 + 0.000014941 * Country/Region^1*Location^1 + -0.000017349 * Country/Region^1*Operator^1 + 0.006605951 * Country/Region^1*Sum of Ground^1 + -0.000765200 * Country/Region^1*Sum of Aboard^1 + -0.000643377 * Aircraft Manufacturer^2 + 0.000315503 * Aircraft Manufacturer^1*Aircraft^1 + -0.000017445 * Aircraft Manufacturer^1*Location^1 + 0.000015392 * Aircraft Manufacturer^1*Operator^1 + 0.104707815 * Aircraft Manufacturer^1*Sum of Ground^1 + -0.007757928 * Aircraft Manufacturer^1*Sum of Aboard^1 + -0.000026691 * Aircraft^2 + 0.000000971 * Aircraft^1*Location^1 + -0.000004519 * Aircraft^1*Operator^1 + -0.015285887 * Aircraft^1*Sum of Ground^1 + 0.001407306 * Aircraft^1*Sum of Aboard^1 + 0.000005494 * Location^2 + 0.000000160 * Location^1*Operator^1 + 0.001422369 * Location^1*Sum of Ground^1 + 0.000295355 * Location^1*Sum of Aboard^1 + 0.000009130 * Operator^2 + 0.003275027 * Operator^1*Sum of Ground^1 + 0.000178295 * Operator^1*Sum of Aboard^1 + -0.066644112 * Sum of Ground^2 + -0.003092950 * Sum of Ground^1*Sum of Aboard^1 + 0.002615175 * Sum of Aboard^2 + 0.000035349 * Year^3 + -0.000030435 * Year^2*Quarter^1 + 0.000021706 * Year^2*Month^1 + 0.000037978 * Year^2*Day^1 + 0.000002573 * Year^2*Country/Region^1 + 0.000007963 * Year^2*Aircraft Manufacturer^1 + -0.000001442 * Year^2*Aircraft^1 + -0.000000072 * Year^2*Location^1 + -0.000000403 * Year^2*Operator^1 + -0.000175228 * Year^2*Sum of Ground^1 + -0.000012190 * Year^2*Sum of Aboard^1 + 0.005633954 * Year^1*Quarter^2 + 0.001548316 * Year^1*Quarter^1*Month^1 + 0.000355968 * Year^1*Quarter^1*Day^1 + -0.000029533 * Year^1*Quarter^1*Country/Region^1 + 0.000004080 * Year^1*Quarter^1*Aircraft Manufacturer^1 + -0.000004579 * Year^1*Quarter^1*Aircraft^1 + 0.000003835 * Year^1*Quarter^1*Location^1 + -0.000001309 * Year^1*Quarter^1*Operator^1 + 0.001012777 * Year^1*Quarter^1*Sum of Ground^1 + -0.000940731 * Year^1*Quarter^1*Sum of Aboard^1 + -0.001165088 * Year^1*Month^2 + -

0.000182107 * Year^1*Month^1*Day^1 + 0.000014470 * Year^1*Month^1*Country/Region^1
 + 0.000030299 * Year^1*Month^1*Aircraft Manufacturer^1 + -0.000006152 *
 Year^1*Month^1*Aircraft^1 + 0.000001475 * Year^1*Month^1*Location^1 + -0.000002862 *
 Year^1*Month^1*Operator^1 + 0.001239733 * Year^1*Month^1*Sum of Ground^1 + -
 0.000074062 * Year^1*Month^1*Sum of Aboard^1 + -0.000057833 * Year^1*Day^2 +
 0.000004620 * Year^1*Day^1*Country/Region^1 + 0.000005617 * Year^1*Day^1*Aircraft
 Manufacturer^1 + -0.000001344 * Year^1*Day^1*Aircraft^1 + 0.000000693 *
 Year^1*Day^1*Location^1 + -0.000000139 * Year^1*Day^1*Operator^1 + -0.001905869 *
 Year^1*Day^1*Sum of Ground^1 + 0.000114773 * Year^1*Day^1*Sum of Aboard^1 +
 0.000000550 * Year^1*Country/Region^2 + -0.000000746 *
 Year^1*Country/Region^1*Aircraft Manufacturer^1 + 0.000000168 *
 Year^1*Country/Region^1*Aircraft^1 + -0.000000108 * Year^1*Country/Region^1*Location^1
 + 0.000000086 * Year^1*Country/Region^1*Operator^1 + 0.000007602 *
 Year^1*Country/Region^1*Sum of Ground^1 + -0.000010415 *
 Year^1*Country/Region^1*Sum of Aboard^1 + -0.000002638 * Year^1*Aircraft
 Manufacturer^2 + 0.000000606 * Year^1*Aircraft Manufacturer^1*Aircraft^1 + -0.000000147 *
 Year^1*Aircraft Manufacturer^1*Location^1 + -0.000000041 * Year^1*Aircraft
 Manufacturer^1*Operator^1 + -0.000917192 * Year^1*Aircraft Manufacturer^1*Sum of
 Ground^1 + 0.000012292 * Year^1*Aircraft Manufacturer^1*Sum of Aboard^1 + -0.000000021
 * Year^1*Aircraft^2 + 0.000000025 * Year^1*Aircraft^1*Location^1 + 0.000000018 *
 Year^1*Aircraft^1*Operator^1 + 0.000141267 * Year^1*Aircraft^1*Sum of Ground^1 + -
 0.000002429 * Year^1*Aircraft^1*Sum of Aboard^1 + 0.000000004 * Year^1*Location^2 +
 0.000000006 * Year^1*Location^1*Operator^1 + 0.000008701 * Year^1*Location^1*Sum of
 Ground^1 + 0.000000453 * Year^1*Location^1*Sum of Aboard^1 + -0.000000009 *
 Year^1*Operator^2 + -0.000012450 * Year^1*Operator^1*Sum of Ground^1 + 0.000001650 *
 Year^1*Operator^1*Sum of Aboard^1 + 0.000809328 * Year^1*Sum of Ground^2 + -
 0.000894253 * Year^1*Sum of Ground^1*Sum of Aboard^1 + 0.000019691 * Year^1*Sum of
 Aboard^2 + -1.006030069 * Quarter^3 + -0.190518156 * Quarter^2*Month^1 + 0.002542689 *
 Quarter^2*Day^1 + -0.000535078 * Quarter^2*Country/Region^1 + -0.001173967 *
 Quarter^2*Aircraft Manufacturer^1 + -0.000265421 * Quarter^2*Aircraft^1 + 0.000168851 *
 Quarter^2*Location^1 + -0.000194968 * Quarter^2*Operator^1 + 0.087132020 *
 Quarter^2*Sum of Ground^1 + -0.021611768 * Quarter^2*Sum of Aboard^1 + 0.009959617 *
 Quarter^1*Month^2 + 0.014210333 * Quarter^1*Month^1*Day^1 + -0.000133822 *
 Quarter^1*Month^1*Country/Region^1 + 0.001868852 * Quarter^1*Month^1*Aircraft
 Manufacturer^1 + -0.000208776 * Quarter^1*Month^1*Aircraft^1 + -0.000012947 *
 Quarter^1*Month^1*Location^1 + 0.000194996 * Quarter^1*Month^1*Operator^1 + -
 0.058399660 * Quarter^1*Month^1*Sum of Ground^1 + 0.006569008 *
 Quarter^1*Month^1*Sum of Aboard^1 + 0.001114158 * Quarter^1*Day^2 + -0.000013123 *
 Quarter^1*Day^1*Country/Region^1 + 0.001107025 * Quarter^1*Day^1*Aircraft
 Manufacturer^1 + -0.000190038 * Quarter^1*Day^1*Aircraft^1 + 0.000007568 *
 Quarter^1*Day^1*Location^1 + 0.000047642 * Quarter^1*Day^1*Operator^1 + 0.033115316 *
 Quarter^1*Day^1*Sum of Ground^1 + 0.000769212 * Quarter^1*Day^1*Sum of Aboard^1 + -
 0.000016765 * Quarter^1*Country/Region^2 + 0.000031933 *
 Quarter^1*Country/Region^1*Aircraft Manufacturer^1 + -0.000004227 *
 Quarter^1*Country/Region^1*Aircraft^1 + -0.000001949 *
 Quarter^1*Country/Region^1*Location^1 + -0.000000852 *

Quarter^1*Country/Region^1*Operator^1 + 0.002966819 * Quarter^1*Country/Region^1*Sum of Ground^1 + 0.000198822 * Quarter^1*Country/Region^1*Sum of Aboard^1 + -0.000073381 * Quarter^1*Aircraft Manufacturer^2 + 0.000018170 * Quarter^1*Aircraft Manufacturer^1*Aircraft^1 + -0.000001136 * Quarter^1*Aircraft Manufacturer^1*Location^1 + -0.000000736 * Quarter^1*Aircraft Manufacturer^1*Operator^1 + 0.000156962 * Quarter^1*Aircraft Manufacturer^1*Sum of Ground^1 + 0.001473172 * Quarter^1*Aircraft Manufacturer^1*Sum of Aboard^1 + -0.000000670 * Quarter^1*Aircraft^2 + 0.000000016 * Quarter^1*Aircraft^1*Location^1 + 0.000000133 * Quarter^1*Aircraft^1*Operator^1 + 0.000180754 * Quarter^1*Aircraft^1*Sum of Ground^1 + -0.000209372 * Quarter^1*Aircraft^1*Sum of Aboard^1 + 0.000000073 * Quarter^1*Location^2 + -0.000000260 * Quarter^1*Location^1*Operator^1 + 0.000209139 * Quarter^1*Location^1*Sum of Ground^1 + -0.000029502 * Quarter^1*Location^1*Sum of Aboard^1 + -0.000000470 * Quarter^1*Operator^2 + -0.000079188 * Quarter^1*Operator^1*Sum of Ground^1 + 0.000025831 * Quarter^1*Operator^1*Sum of Aboard^1 + -0.011338317 * Quarter^1*Sum of Ground^2 + -0.006182297 * Quarter^1*Sum of Ground^1*Sum of Aboard^1 + 0.000149905 * Quarter^1*Sum of Aboard^2 + -0.032932880 * Month^3 + 0.000343857 * Month^2*Day^1 + -0.000047395 * Month^2*Country/Region^1 + -0.000599710 * Month^2*Aircraft Manufacturer^1 + 0.000103753 * Month^2*Aircraft^1 + 0.000042684 * Month^2*Location^1 + -0.000034057 * Month^2*Operator^1 + 0.011039932 * Month^2*Sum of Ground^1 + -0.002818436 * Month^2*Sum of Aboard^1 + 0.002362212 * Month^1*Day^2 + 0.000061536 * Month^1*Day^1*Country/Region^1 + -0.000301776 * Month^1*Day^1*Aircraft Manufacturer^1 + 0.000038935 * Month^1*Day^1*Aircraft^1 + -0.000005373 * Month^1*Day^1*Location^1 + -0.000027299 * Month^1*Day^1*Operator^1 + 0.001173201 * Month^1*Day^1*Sum of Ground^1 + 0.000639144 * Month^1*Day^1*Sum of Aboard^1 + -0.000002555 * Month^1*Country/Region^2 + -0.000003216 * Month^1*Country/Region^1*Aircraft Manufacturer^1 + 0.000000327 * Month^1*Country/Region^1*Aircraft^1 + 0.000000071 * Month^1*Country/Region^1*Location^1 + 0.000000167 * Month^1*Country/Region^1*Operator^1 + 0.000507435 * Month^1*Country/Region^1*Sum of Ground^1 + -0.000049985 * Month^1*Country/Region^1*Sum of Aboard^1 + 0.000005676 * Month^1*Aircraft Manufacturer^2 + -0.000002705 * Month^1*Aircraft Manufacturer^1*Aircraft^1 + -0.000001141 * Month^1*Aircraft Manufacturer^1*Location^1 + -0.000000871 * Month^1*Aircraft Manufacturer^1*Operator^1 + 0.000772063 * Month^1*Aircraft Manufacturer^1*Sum of Ground^1 + -0.000095273 * Month^1*Aircraft Manufacturer^1*Sum of Aboard^1 + 0.000000247 * Month^1*Aircraft^2 + 0.000000299 * Month^1*Aircraft^1*Location^1 + 0.000000200 * Month^1*Aircraft^1*Operator^1 + -0.000409032 * Month^1*Aircraft^1*Sum of Ground^1 + 0.000002286 * Month^1*Aircraft^1*Sum of Aboard^1 + -0.000000033 * Month^1*Location^2 + 0.000000147 * Month^1*Location^1*Operator^1 + -0.000109827 * Month^1*Location^1*Sum of Ground^1 + 0.000005869 * Month^1*Location^1*Sum of Aboard^1 + 0.000000104 * Month^1*Operator^2 + 0.000023936 * Month^1*Operator^1*Sum of Ground^1 + -0.000007122 * Month^1*Operator^1*Sum of Aboard^1 + -0.012557470 * Month^1*Sum of Ground^2 + 0.005989729 * Month^1*Sum of Ground^1*Sum of Aboard^1 + 0.000124002 * Month^1*Sum of Aboard^2 + 0.000381742 * Day^3 + -0.000003458 * Day^2*Country/Region^1 + 0.000036485 * Day^2*Aircraft Manufacturer^1 + -0.000017277 * Day^2*Aircraft^1 + -0.000001071 * Day^2*Location^1 + -0.000001411 * Day^2*Operator^1 + -0.005588143 *

Day^2*Sum of Ground^1 + -0.000350992 * Day^2*Sum of Aboard^1 + 0.000000762 *
Day^1*Country/Region^2 + 0.000003826 * Day^1*Country/Region^1*Aircraft Manufacturer^1
+ -0.000000676 * Day^1*Country/Region^1*Aircraft^1 + -0.000000108 *
Day^1*Country/Region^1*Location^1 + -0.000000283 * Day^1*Country/Region^1*Operator^1
+ -0.000292542 * Day^1*Country/Region^1*Sum of Ground^1 + -0.000019345 *
Day^1*Country/Region^1*Sum of Aboard^1 + -0.000008845 * Day^1*Aircraft Manufacturer^2
+ 0.000001296 * Day^1*Aircraft Manufacturer^1*Aircraft^1 + 0.000000426 * Day^1*Aircraft
Manufacturer^1*Location^1 + -0.000000024 * Day^1*Aircraft Manufacturer^1*Operator^1 + -
0.001899524 * Day^1*Aircraft Manufacturer^1*Sum of Ground^1 + 0.000129471 *
Day^1*Aircraft Manufacturer^1*Sum of Aboard^1 + 0.000000057 * Day^1*Aircraft^2 +
0.000000001 * Day^1*Aircraft^1*Location^1 + 0.000000029 * Day^1*Aircraft^1*Operator^1 +
0.000349376 * Day^1*Aircraft^1*Sum of Ground^1 + -0.000021266 * Day^1*Aircraft^1*Sum
of Aboard^1 + -0.000000050 * Day^1*Location^2 + 0.000000027 *
Day^1*Location^1*Operator^1 + -0.000015556 * Day^1*Location^1*Sum of Ground^1 + -
0.000002188 * Day^1*Location^1*Sum of Aboard^1 + -0.000000037 * Day^1*Operator^2 + -
0.000036172 * Day^1*Operator^1*Sum of Ground^1 + -0.000002165 *
Day^1*Operator^1*Sum of Aboard^1 + 0.002128052 * Day^1*Sum of Ground^2 + -
0.000914761 * Day^1*Sum of Ground^1*Sum of Aboard^1 + -0.000085871 * Day^1*Sum of
Aboard^2 + -0.000000061 * Country/Region^3 + -0.000000024 * Country/Region^2*Aircraft
Manufacturer^1 + -0.000000002 * Country/Region^2*Aircraft^1 + -0.000000010 *
Country/Region^2*Location^1 + 0.000000017 * Country/Region^2*Operator^1 + -0.000017635
* Country/Region^2*Sum of Ground^1 + 0.000004095 * Country/Region^2*Sum of Aboard^1
+ -0.000000133 * Country/Region^1*Aircraft Manufacturer^2 + 0.000000021 *
Country/Region^1*Aircraft Manufacturer^1*Aircraft^1 + -0.000000017 *
Country/Region^1*Aircraft Manufacturer^1*Location^1 + -0.000000029 *
Country/Region^1*Aircraft Manufacturer^1*Operator^1 + 0.000050053 *
Country/Region^1*Aircraft Manufacturer^1*Sum of Ground^1 + -0.000004308 *
Country/Region^1*Aircraft Manufacturer^1*Sum of Aboard^1 + 0.000000002 *
Country/Region^1*Aircraft^2 + -0.000000001 * Country/Region^1*Aircraft^1*Location^1 +
0.000000007 * Country/Region^1*Aircraft^1*Operator^1 + -0.000009712 *
Country/Region^1*Aircraft^1*Sum of Ground^1 + 0.000000653 *
Country/Region^1*Aircraft^1*Sum of Aboard^1 + 0.000000001 *
Country/Region^1*Location^2 + 0.000000001 * Country/Region^1*Location^1*Operator^1 + -
0.000002972 * Country/Region^1*Location^1*Sum of Ground^1 + 0.000000123 *
Country/Region^1*Location^1*Sum of Aboard^1 + 0.000000004 *
Country/Region^1*Operator^2 + 0.000000838 * Country/Region^1*Operator^1*Sum of
Ground^1 + -0.000000398 * Country/Region^1*Operator^1*Sum of Aboard^1 + 0.000225222 *
Country/Region^1*Sum of Ground^2 + 0.000031043 * Country/Region^1*Sum of
Ground^1*Sum of Aboard^1 + -0.000000517 * Country/Region^1*Sum of Aboard^2 +
0.000000359 * Aircraft Manufacturer^3 + 0.000000260 * Aircraft Manufacturer^2*Aircraft^1 +
-0.000000045 * Aircraft Manufacturer^2*Location^1 + -0.000000109 * Aircraft
Manufacturer^2*Operator^1 + -0.000079655 * Aircraft Manufacturer^2*Sum of Ground^1 +
0.000009508 * Aircraft Manufacturer^2*Sum of Aboard^1 + -0.000000117 * Aircraft
Manufacturer^1*Aircraft^2 + 0.000000009 * Aircraft Manufacturer^1*Aircraft^1*Location^1 +
0.000000019 * Aircraft Manufacturer^1*Aircraft^1*Operator^1 + 0.000026787 * Aircraft
Manufacturer^1*Aircraft^1*Sum of Ground^1 + -0.000001423 * Aircraft

Manufacturer^1*Aircraft^1*Sum of Aboard^1 + 0.000000002 * Aircraft
 Manufacturer^1*Location^2 + 0.000000006 * Aircraft Manufacturer^1*Location^1*Operator^1
 + -0.000011610 * Aircraft Manufacturer^1*Location^1*Sum of Ground^1 + 0.000001421 *
 Aircraft Manufacturer^1*Location^1*Sum of Aboard^1 + 0.000000003 * Aircraft
 Manufacturer^1*Operator^2 + -0.000009119 * Aircraft Manufacturer^1*Operator^1*Sum of
 Ground^1 + 0.00000912 * Aircraft Manufacturer^1*Operator^1*Sum of Aboard^1 + -
 0.001168063 * Aircraft Manufacturer^1*Sum of Ground^2 + -0.000192600 * Aircraft
 Manufacturer^1*Sum of Ground^1*Sum of Aboard^1 + -0.000030722 * Aircraft
 Manufacturer^1*Sum of Aboard^2 + 0.000000009 * Aircraft^3 + -0.000000000 *
 Aircraft^2*Location^1 + -0.000000000 * Aircraft^2*Operator^1 + -0.000002197 *
 Aircraft^2*Sum of Ground^1 + -0.000000059 * Aircraft^2*Sum of Aboard^1 + -0.000000000 *
 Aircraft^1*Location^2 + -0.000000001 * Aircraft^1*Location^1*Operator^1 + 0.000001736 *
 Aircraft^1*Location^1*Sum of Ground^1 + -0.000000200 * Aircraft^1*Location^1*Sum of
 Aboard^1 + -0.000000001 * Aircraft^1*Operator^2 + 0.000001756 *
 Aircraft^1*Operator^1*Sum of Ground^1 + -0.000000147 * Aircraft^1*Operator^1*Sum of
 Aboard^1 + 0.000170071 * Aircraft^1*Sum of Ground^2 + 0.000038034 * Aircraft^1*Sum of
 Ground^1*Sum of Aboard^1 + 0.000004694 * Aircraft^1*Sum of Aboard^2 + -0.000000001 *
 Location^3 + -0.000000000 * Location^2*Operator^1 + 0.000000055 * Location^2*Sum of
 Ground^1 + -0.000000070 * Location^2*Sum of Aboard^1 + -0.000000000 *
 Location^1*Operator^2 + -0.000000818 * Location^1*Operator^1*Sum of Ground^1 + -
 0.000000014 * Location^1*Operator^1*Sum of Aboard^1 + 0.000025843 * Location^1*Sum of
 Ground^2 + -0.000001122 * Location^1*Sum of Ground^1*Sum of Aboard^1 + -0.000000065 *
 Location^1*Sum of Aboard^2 + -0.000000002 * Operator^3 + -0.000000732 * Operator^2*Sum
 of Ground^1 + -0.000000001 * Operator^2*Sum of Aboard^1 + 0.000051721 *
 Operator^1*Sum of Ground^2 + -0.000010812 * Operator^1*Sum of Ground^1*Sum of
 Aboard^1 + -0.000000799 * Operator^1*Sum of Aboard^2 + -0.000697900 * Sum of Ground^3
 + -0.000969034 * Sum of Ground^2*Sum of Aboard^1 + 0.000639258 * Sum of
 Ground^1*Sum of Aboard^2 + -0.000013191 * Sum of Aboard^3

Accuracy: 0.7445256371908662

DEGREE-4:

Equation: Sum of Fatalities (air)= -8.823180849 + 0.195888186 * Quarter + 2.755673673 *
 Month + -0.554595539 * Day + -0.129610203 * Country/Region + 0.221819940 * Aircraft
 Manufacturer + -0.032963241 * Aircraft + -0.022092435 * Location + -0.016011309 * Operator
 + 0.044737672 * Sum of Ground + 1.845773135 * Sum of Aboard + 0.003390553 * Year^2 + -
 0.403067524 * Year^1*Quarter^1 + -0.093150991 * Year^1*Month^1 + 0.023837674 *
 Year^1*Day^1 + 0.001841499 * Year^1*Country/Region^1 + 0.001183560 * Year^1*Aircraft
 Manufacturer^1 + -0.000632317 * Year^1*Aircraft^1 + 0.000293588 * Year^1*Location^1 +
 0.000126723 * Year^1*Operator^1 + 0.004795056 * Year^1*Sum of Ground^1 + 0.017166325
 * Year^1*Sum of Aboard^1 + 2.802214730 * Quarter^2 + -2.655117728 * Quarter^1*Month^1
 + -0.177268280 * Quarter^1*Day^1 + 0.092413990 * Quarter^1*Country/Region^1 +
 0.598631778 * Quarter^1*Aircraft Manufacturer^1 + -0.088595548 * Quarter^1*Aircraft^1 +

0.021365032 * Quarter^1*Location^1 + 0.020966366 * Quarter^1*Operator^1 + 0.004567963 * Quarter^1*Sum of Ground^1 + 0.310085995 * Quarter^1*Sum of Aboard^1 + 1.293292232 * Month^2 + -0.328731096 * Month^1*Day^1 + -0.002025134 * Month^1*Country/Region^1 + -0.013518827 * Month^1*Aircraft Manufacturer^1 + 0.004828847 * Month^1*Aircraft^1 + 0.006606271 * Month^1*Location^1 + 0.004598954 * Month^1*Operator^1 + 0.001003044 * Month^1*Sum of Ground^1 + 0.146953731 * Month^1*Sum of Aboard^1 + 0.128088941 * Day^2 + -0.000176146 * Day^1*Country/Region^1 + -0.003656532 * Day^1*Aircraft Manufacturer^1 + 0.001973527 * Day^1*Aircraft^1 + -0.000846578 * Day^1*Location^1 + -0.000204662 * Day^1*Operator^1 + -0.000566568 * Day^1*Sum of Ground^1 + 0.006058764 * Day^1*Sum of Aboard^1 + 0.000339756 * Country/Region^2 + -0.000075336 * Country/Region^1*Aircraft Manufacturer^1 + 0.000083342 * Country/Region^1*Aircraft^1 + -0.000001903 * Country/Region^1*Location^1 + 0.000066004 * Country/Region^1*Operator^1 + 0.000242080 * Country/Region^1*Sum of Ground^1 + -0.000145919 * Country/Region^1*Sum of Aboard^1 + 0.004895773 * Aircraft Manufacturer^2 + -0.001699642 * Aircraft Manufacturer^1*Aircraft^1 + -0.000275754 * Aircraft Manufacturer^1*Location^1 + 0.000129733 * Aircraft Manufacturer^1*Operator^1 + -0.000855258 * Aircraft Manufacturer^1*Sum of Ground^1 + -0.021236502 * Aircraft Manufacturer^1*Sum of Aboard^1 + 0.000163707 * Aircraft^2 + 0.000039122 * Aircraft^1*Location^1 + -0.000045888 * Aircraft^1*Operator^1 + 0.000275635 * Aircraft^1*Sum of Ground^1 + 0.001984723 * Aircraft^1*Sum of Aboard^1 + 0.000011129 * Location^2 + 0.000004757 * Location^1*Operator^1 + -0.000177676 * Location^1*Sum of Ground^1 + -0.000375389 * Location^1*Sum of Aboard^1 + 0.000034923 * Operator^2 + 0.000002977 * Operator^1*Sum of Ground^1 + -0.001114679 * Operator^1*Sum of Aboard^1 + -0.000736458 * Sum of Ground^2 + 0.000453750 * Sum of Ground^1*Sum of Aboard^1 + -0.030388633 * Sum of Aboard^2 + -0.000006601 * Year^3 + 0.003055351 * Year^2*Quarter^1 + 0.000428861 * Year^2*Month^1 + -0.000551793 * Year^2*Day^1 + 0.000020985 * Year^2*Country/Region^1 + -0.000038574 * Year^2*Aircraft Manufacturer^1 + 0.000008498 * Year^2*Aircraft^1 + -0.000003116 * Year^2*Location^1 + -0.000004256 * Year^2*Operator^1 + 0.000307519 * Year^2*Sum of Ground^1 + -0.000252147 * Year^2*Sum of Aboard^1 + 0.290512428 * Year^1*Quarter^2 + -0.000513034 * Year^1*Quarter^1*Month^1 + 0.001630317 * Year^1*Quarter^1*Day^1 + -0.000849255 * Year^1*Quarter^1*Country/Region^1 + -0.001013917 * Year^1*Quarter^1*Aircraft Manufacturer^1 + 0.000215951 * Year^1*Quarter^1*Aircraft^1 + -0.000075907 * Year^1*Quarter^1*Location^1 + -0.000070733 * Year^1*Quarter^1*Operator^1 + -0.000453619 * Year^1*Quarter^1*Sum of Ground^1 + 0.006259714 * Year^1*Quarter^1*Sum of Aboard^1 + 0.015642944 * Year^1*Month^2 + -0.002348904 * Year^1*Month^1*Day^1 + 0.000016118 * Year^1*Month^1*Country/Region^1 + 0.000450093 * Year^1*Month^1*Aircraft Manufacturer^1 + -0.000028485 * Year^1*Month^1*Aircraft^1 + -0.000006091 * Year^1*Month^1*Location^1 + 0.000013091 * Year^1*Month^1*Operator^1 + -0.000328486 * Year^1*Month^1*Sum of Ground^1 + -0.002800575 * Year^1*Month^1*Sum of Aboard^1 + 0.001046141 * Year^1*Day^2 + -0.000064278 * Year^1*Day^1*Country/Region^1 + -0.000212556 * Year^1*Day^1*Aircraft Manufacturer^1 + 0.000038259 * Year^1*Day^1*Aircraft^1 + 0.000000307 * Year^1*Day^1*Location^1 + 0.000007131 * Year^1*Day^1*Operator^1 + -0.000071113 * Year^1*Day^1*Sum of Ground^1 + -0.000967606 * Year^1*Day^1*Sum of Aboard^1 + -0.000000578 * Year^1*Country/Region^2 + -0.000008717 * Year^1*Country/Region^1*Aircraft Manufacturer^1 + 0.000001475 *

Year^1*Country/Region^1*Aircraft^1 + -0.000000024 * Year^1*Country/Region^1*Location^1
 + -0.000001355 * Year^1*Country/Region^1*Operator^1 + 0.000048170 *
 Year^1*Country/Region^1*Sum of Ground^1 + -0.000140936 *
 Year^1*Country/Region^1*Sum of Aboard^1 + 0.000012837 * Year^1*Aircraft
 Manufacturer^2 + -0.000005021 * Year^1*Aircraft Manufacturer^1*Aircraft^1 + 0.000000478 *
 Year^1*Aircraft Manufacturer^1*Location^1 + 0.000002810 * Year^1*Aircraft
 Manufacturer^1*Operator^1 + -0.000027435 * Year^1*Aircraft Manufacturer^1*Sum of
 Ground^1 + 0.000210971 * Year^1*Aircraft Manufacturer^1*Sum of Aboard^1 + 0.000000500
 * Year^1*Aircraft^2 + -0.000000103 * Year^1*Aircraft^1*Location^1 + -0.000000282 *
 Year^1*Aircraft^1*Operator^1 + 0.000011937 * Year^1*Aircraft^1*Sum of Ground^1 + -
 0.000027036 * Year^1*Aircraft^1*Sum of Aboard^1 + 0.000000012 * Year^1*Location^2 + -
 0.000000115 * Year^1*Location^1*Operator^1 + 0.000095618 * Year^1*Location^1*Sum of
 Ground^1 + 0.000004444 * Year^1*Location^1*Sum of Aboard^1 + 0.000000140 *
 Year^1*Operator^2 + 0.000242681 * Year^1*Operator^1*Sum of Ground^1 + 0.000007805 *
 Year^1*Operator^1*Sum of Aboard^1 + -0.000080204 * Year^1*Sum of Ground^2 +
 0.000045779 * Year^1*Sum of Ground^1*Sum of Aboard^1 + 0.000282863 * Year^1*Sum of
 Aboard^2 + 4.204031373 * Quarter^3 + -1.113303025 * Quarter^2*Month^1 + 0.019674843 *
 Quarter^2*Day^1 + -0.048091396 * Quarter^2*Country/Region^1 + -0.255203841 *
 Quarter^2*Aircraft Manufacturer^1 + 0.035559586 * Quarter^2*Aircraft^1 + -0.012301229 *
 Quarter^2*Location^1 + -0.013733113 * Quarter^2*Operator^1 + -0.000022208 *
 Quarter^2*Sum of Ground^1 + -0.307484001 * Quarter^2*Sum of Aboard^1 + -1.404009676 *
 Quarter^1*Month^2 + 0.215902042 * Quarter^1*Month^1*Day^1 + -0.003029218 *
 Quarter^1*Month^1*Country/Region^1 + -0.019702452 * Quarter^1*Month^1*Aircraft
 Manufacturer^1 + 0.005110498 * Quarter^1*Month^1*Aircraft^1 + -0.000539259 *
 Quarter^1*Month^1*Location^1 + 0.001485223 * Quarter^1*Month^1*Operator^1 + -
 0.000079560 * Quarter^1*Month^1*Sum of Ground^1 + -0.044655302 *
 Quarter^1*Month^1*Sum of Aboard^1 + -0.011946281 * Quarter^1*Day^2 + 0.001466521 *
 Quarter^1*Day^1*Country/Region^1 + 0.000395312 * Quarter^1*Day^1*Aircraft
 Manufacturer^1 + -0.000270412 * Quarter^1*Day^1*Aircraft^1 + 0.000005274 *
 Quarter^1*Day^1*Location^1 + -0.000184171 * Quarter^1*Day^1*Operator^1 + 0.000004592
 * Quarter^1*Day^1*Sum of Ground^1 + -0.006961979 * Quarter^1*Day^1*Sum of Aboard^1 +
 0.000015188 * Quarter^1*Country/Region^2 + -0.000274240 *
 Quarter^1*Country/Region^1*Aircraft Manufacturer^1 + 0.000030146 *
 Quarter^1*Country/Region^1*Aircraft^1 + 0.000012982 *
 Quarter^1*Country/Region^1*Location^1 + -0.000018214 *
 Quarter^1*Country/Region^1*Operator^1 + 0.000006492 * Quarter^1*Country/Region^1*Sum
 of Ground^1 + -0.000855049 * Quarter^1*Country/Region^1*Sum of Aboard^1 + -0.002160092
 * Quarter^1*Aircraft Manufacturer^2 + 0.000604466 * Quarter^1*Aircraft
 Manufacturer^1*Aircraft^1 + -0.000030921 * Quarter^1*Aircraft Manufacturer^1*Location^1 +
 -0.000001128 * Quarter^1*Aircraft Manufacturer^1*Operator^1 + 0.000013446 *
 Quarter^1*Aircraft Manufacturer^1*Sum of Ground^1 + 0.000750255 * Quarter^1*Aircraft
 Manufacturer^1*Sum of Aboard^1 + -0.000044394 * Quarter^1*Aircraft^2 + 0.000002991 *
 Quarter^1*Aircraft^1*Location^1 + 0.000002572 * Quarter^1*Aircraft^1*Operator^1 +
 0.000028346 * Quarter^1*Aircraft^1*Sum of Ground^1 + 0.000063026 *
 Quarter^1*Aircraft^1*Sum of Aboard^1 + -0.000001372 * Quarter^1*Location^2 +
 0.000001292 * Quarter^1*Location^1*Operator^1 + 0.000007804 *

Quarter^1*Location^1*Sum of Ground^1 + -0.000033335 * Quarter^1*Location^1*Sum of Aboard^1 + -0.000004962 * Quarter^1*Operator^2 + -0.000004667 *
 Quarter^1*Operator^1*Sum of Ground^1 + 0.000018032 * Quarter^1*Operator^1*Sum of Aboard^1 + 0.000014729 * Quarter^1*Sum of Ground^2 + -0.000026221 * Quarter^1*Sum of Ground^1*Sum of Aboard^1 + 0.001820833 * Quarter^1*Sum of Aboard^2 + -0.079008030 * Month^3 + 0.037940123 * Month^2*Day^1 + -0.003121343 * Month^2*Country/Region^1 + -0.015951686 * Month^2*Aircraft Manufacturer^1 + 0.001989259 * Month^2*Aircraft^1 + -0.001215683 * Month^2*Location^1 + -0.001132060 * Month^2*Operator^1 + 0.000004643 * Month^2*Sum of Ground^1 + -0.022366598 * Month^2*Sum of Aboard^1 + 0.002791487 * Month^1*Day^2 + 0.000506401 * Month^1*Day^1*Country/Region^1 + -0.001638062 * Month^1*Day^1*Aircraft Manufacturer^1 + 0.000247848 * Month^1*Day^1*Aircraft^1 + -0.000008982 * Month^1*Day^1*Location^1 + 0.000035293 * Month^1*Day^1*Operator^1 + -0.000005759 * Month^1*Day^1*Sum of Ground^1 + -0.001616012 * Month^1*Day^1*Sum of Aboard^1 + 0.000027093 * Month^1*Country/Region^2 + 0.000138418 * Month^1*Country/Region^1*Aircraft Manufacturer^1 + -0.000027713 * Month^1*Country/Region^1*Aircraft^1 + 0.000001190 * Month^1*Country/Region^1*Location^1 + 0.000001450 * Month^1*Country/Region^1*Operator^1 + -0.000078956 * Month^1*Country/Region^1*Sum of Ground^1 + 0.000423790 * Month^1*Country/Region^1*Sum of Aboard^1 + 0.000403780 * Month^1*Aircraft Manufacturer^2 + -0.000079460 * Month^1*Aircraft Manufacturer^1*Aircraft^1 + -0.000012255 * Month^1*Aircraft Manufacturer^1*Location^1 + -0.000012627 * Month^1*Aircraft Manufacturer^1*Operator^1 + -0.000068108 * Month^1*Aircraft Manufacturer^1*Sum of Ground^1 + 0.002491692 * Month^1*Aircraft Manufacturer^1*Sum of Aboard^1 + 0.000000130 * Month^1*Aircraft^2 + 0.000002387 * Month^1*Aircraft^1*Location^1 + 0.000001513 * Month^1*Aircraft^1*Operator^1 + -0.000426653 * Month^1*Aircraft^1*Sum of Ground^1 + -0.000396856 * Month^1*Aircraft^1*Sum of Aboard^1 + -0.000000427 * Month^1*Location^2 + -0.000000668 * Month^1*Location^1*Operator^1 + -0.000000323 * Month^1*Location^1*Sum of Ground^1 + -0.000034410 * Month^1*Location^1*Sum of Aboard^1 + -0.000000772 * Month^1*Operator^2 + -0.000329245 * Month^1*Operator^1*Sum of Ground^1 + -0.000010686 * Month^1*Operator^1*Sum of Aboard^1 + -0.000016160 * Month^1*Sum of Ground^2 + 0.000008482 * Month^1*Sum of Ground^1*Sum of Aboard^1 + 0.000835706 * Month^1*Sum of Aboard^2 + -0.004483845 * Day^3 + -0.000180911 * Day^2*Country/Region^1 + 0.000468716 * Day^2*Aircraft Manufacturer^1 + -0.000128392 * Day^2*Aircraft^1 + 0.000000881 * Day^2*Location^1 + -0.000007971 * Day^2*Operator^1 + -0.000008830 * Day^2*Sum of Ground^1 + 0.000062898 * Day^2*Sum of Aboard^1 + 0.000009021 * Day^1*Country/Region^2 + -0.000045562 * Day^1*Country/Region^1*Aircraft Manufacturer^1 + 0.000007386 * Day^1*Country/Region^1*Aircraft^1 + 0.000000788 * Day^1*Country/Region^1*Location^1 + 0.000000081 * Day^1*Country/Region^1*Operator^1 + -0.000042704 * Day^1*Country/Region^1*Sum of Ground^1 + -0.000007487 * Day^1*Country/Region^1*Sum of Aboard^1 + -0.000044135 * Day^1*Aircraft Manufacturer^2 + 0.000014829 * Day^1*Aircraft Manufacturer^1*Aircraft^1 + 0.000002175 * Day^1*Aircraft Manufacturer^1*Location^1 + 0.000013863 * Day^1*Aircraft Manufacturer^1*Operator^1 + -0.000063199 * Day^1*Aircraft Manufacturer^1*Sum of Ground^1 + -0.000050039 * Day^1*Aircraft Manufacturer^1*Sum of Aboard^1 + -0.000001982 * Day^1*Aircraft^2 + -0.000000201 * Day^1*Aircraft^1*Location^1 + -0.000002273 * Day^1*Aircraft^1*Operator^1

+ -0.000350563 * Day^1*Aircraft^1*Sum of Ground^1 + 0.000022199 *
Day^1*Aircraft^1*Sum of Aboard^1 + 0.000000175 * Day^1*Location^2 + 0.000000304 *
Day^1*Location^1*Operator^1 + 0.000720814 * Day^1*Location^1*Sum of Ground^1 + -
0.000003909 * Day^1*Location^1*Sum of Aboard^1 + -0.000000389 * Day^1*Operator^2 + -
0.001274904 * Day^1*Operator^1*Sum of Ground^1 + 0.000031338 * Day^1*Operator^1*Sum
of Aboard^1 + -0.000003238 * Day^1*Sum of Ground^2 + 0.000032026 * Day^1*Sum of
Ground^1*Sum of Aboard^1 + 0.000199424 * Day^1*Sum of Aboard^2 + -0.000001076 *
Country/Region^3 + -0.00002158 * Country/Region^2*Aircraft Manufacturer^1 +
0.00000215 * Country/Region^2*Aircraft^1 + -0.000000002 * Country/Region^2*Location^1
+ -0.000000085 * Country/Region^2*Operator^1 + 0.000717720 * Country/Region^2*Sum of
Ground^1 + 0.000008681 * Country/Region^2*Sum of Aboard^1 + -0.000006629 *
Country/Region^1*Aircraft Manufacturer^2 + 0.000003005 * Country/Region^1*Aircraft
Manufacturer^1*Aircraft^1 + 0.000000022 * Country/Region^1*Aircraft
Manufacturer^1*Location^1 + -0.000000106 * Country/Region^1*Aircraft
Manufacturer^1*Operator^1 + 0.000462612 * Country/Region^1*Aircraft Manufacturer^1*Sum
of Ground^1 + 0.000013451 * Country/Region^1*Aircraft Manufacturer^1*Sum of Aboard^1 +
-0.000000312 * Country/Region^1*Aircraft^2 + -0.000000015 *
Country/Region^1*Aircraft^1*Location^1 + -0.000000013 *
Country/Region^1*Aircraft^1*Operator^1 + -0.000613377 *
Country/Region^1*Aircraft^1*Sum of Ground^1 + -0.000001945 *
Country/Region^1*Aircraft^1*Sum of Aboard^1 + -0.000000003 *
Country/Region^1*Location^2 + 0.000000008 * Country/Region^1*Location^1*Operator^1 +
0.000105714 * Country/Region^1*Location^1*Sum of Ground^1 + -0.000000005 *
Country/Region^1*Location^1*Sum of Aboard^1 + 0.000000020 *
Country/Region^1*Operator^2 + 0.000324326 * Country/Region^1*Operator^1*Sum of
Ground^1 + -0.000001738 * Country/Region^1*Operator^1*Sum of Aboard^1 + 0.000060644 *
Country/Region^1*Sum of Ground^2 + 0.000227557 * Country/Region^1*Sum of
Ground^1*Sum of Aboard^1 + 0.000056715 * Country/Region^1*Sum of Aboard^2 + -
0.000014624 * Aircraft Manufacturer^3 + 0.000004212 * Aircraft Manufacturer^2*Aircraft^1 +
-0.000000281 * Aircraft Manufacturer^2*Location^1 + 0.000000309 * Aircraft
Manufacturer^2*Operator^1 + 0.000323657 * Aircraft Manufacturer^2*Sum of Ground^1 + -
0.000084976 * Aircraft Manufacturer^2*Sum of Aboard^1 + -0.000000209 * Aircraft
Manufacturer^1*Aircraft^2 + 0.000000203 * Aircraft Manufacturer^1*Aircraft^1*Location^1 +
-0.000000278 * Aircraft Manufacturer^1*Aircraft^1*Operator^1 + 0.000938599 * Aircraft
Manufacturer^1*Aircraft^1*Sum of Ground^1 + 0.000030025 * Aircraft
Manufacturer^1*Aircraft^1*Sum of Aboard^1 + 0.000000068 * Aircraft
Manufacturer^1*Location^2 + -0.000000031 * Aircraft Manufacturer^1*Location^1*Operator^1
+ -0.000844321 * Aircraft Manufacturer^1*Location^1*Sum of Ground^1 + 0.0000008896 *
Aircraft Manufacturer^1*Location^1*Sum of Aboard^1 + 0.000000011 * Aircraft
Manufacturer^1*Operator^2 + 0.001165642 * Aircraft Manufacturer^1*Operator^1*Sum of
Ground^1 + -0.000004692 * Aircraft Manufacturer^1*Operator^1*Sum of Aboard^1 +
0.000071784 * Aircraft Manufacturer^1*Sum of Ground^2 + -0.000110042 * Aircraft
Manufacturer^1*Sum of Ground^1*Sum of Aboard^1 + -0.000155878 * Aircraft
Manufacturer^1*Sum of Aboard^2 + -0.000000021 * Aircraft^3 + -0.000000021 *
Aircraft^2*Location^1 + 0.000000042 * Aircraft^2*Operator^1 + -0.000098765 *
Aircraft^2*Sum of Ground^1 + -0.000001963 * Aircraft^2*Sum of Aboard^1 + -0.000000012 *

Aircraft^1*Location^2 + 0.000000008 * Aircraft^1*Location^1*Operator^1 + 0.000088312 *
 Aircraft^1*Location^1*Sum of Ground^1 + -0.000001431 * Aircraft^1*Location^1*Sum of
 Aboard^1 + 0.000000004 * Aircraft^1*Operator^2 + -0.000136612 *
 Aircraft^1*Operator^1*Sum of Ground^1 + 0.000000961 * Aircraft^1*Operator^1*Sum of
 Aboard^1 + 0.000211110 * Aircraft^1*Sum of Ground^2 + -0.001034815 * Aircraft^1*Sum of
 Ground^1*Sum of Aboard^1 + 0.000027867 * Aircraft^1*Sum of Aboard^2 + -0.000000004 *
 Location^3 + -0.000000001 * Location^2*Operator^1 + -0.000004024 * Location^2*Sum of
 Ground^1 + 0.000000266 * Location^2*Sum of Aboard^1 + -0.000000001 *
 Location^1*Operator^2 + 0.000027685 * Location^1*Operator^1*Sum of Ground^1 + -
 0.000000072 * Location^1*Operator^1*Sum of Aboard^1 + 0.000347875 * Location^1*Sum of
 Ground^2 + 0.000835969 * Location^1*Sum of Ground^1*Sum of Aboard^1 + 0.000001573 *
 Location^1*Sum of Aboard^2 + -0.000000022 * Operator^3 + -0.000087061 * Operator^2*Sum
 of Ground^1 + 0.000000628 * Operator^2*Sum of Aboard^1 + 0.000759083 * Operator^1*Sum
 of Ground^2 + 0.000668230 * Operator^1*Sum of Ground^1*Sum of Aboard^1 + 0.000001783
 * Operator^1*Sum of Aboard^2 + -0.000011532 * Sum of Ground^3 + -0.000003113 * Sum of
 Ground^2*Sum of Aboard^1 + -0.000078674 * Sum of Ground^1*Sum of Aboard^2 +
 0.000048327 * Sum of Aboard^3 + -0.000000032 * Year^4 + -0.000014751 *
 Year^3*Quarter^1 + -0.000001284 * Year^3*Month^1 + 0.000002037 * Year^3*Day^1 + -
 0.000000149 * Year^3*Country/Region^1 + 0.000000100 * Year^3*Aircraft Manufacturer^1 +
 -0.000000030 * Year^3*Aircraft^1 + 0.000000018 * Year^3*Location^1 + 0.000000026 *
 Year^3*Operator^1 + 0.000038454 * Year^3*Sum of Ground^1 + 0.000001725 * Year^3*Sum
 of Aboard^1 + -0.000565153 * Year^2*Quarter^2 + -0.000089354 *
 Year^2*Quarter^1*Month^1 + -0.000014680 * Year^2*Quarter^1*Day^1 + 0.000003337 *
 Year^2*Quarter^1*Country/Region^1 + 0.000002295 * Year^2*Quarter^1*Aircraft
 Manufacturer^1 + -0.000000115 * Year^2*Quarter^1*Aircraft^1 + 0.000000258 *
 Year^2*Quarter^1*Location^1 + 0.000000677 * Year^2*Quarter^1*Operator^1 + -0.000105595
 * Year^2*Quarter^1*Sum of Ground^1 + -0.000083861 * Year^2*Quarter^1*Sum of Aboard^1 +
 0.000000729 * Year^2*Month^2 + 0.000021914 * Year^2*Month^1*Day^1 + -0.000000425
 * Year^2*Month^1*Country/Region^1 + 0.000000102 * Year^2*Month^1*Aircraft
 Manufacturer^1 + -0.000000170 * Year^2*Month^1*Aircraft^1 + -0.000000032 *
 Year^2*Month^1*Location^1 + -0.000000080 * Year^2*Month^1*Operator^1 + 0.000017688 *
 Year^2*Month^1*Sum of Ground^1 + 0.000023425 * Year^2*Month^1*Sum of Aboard^1 +
 0.000000837 * Year^2*Day^2 + 0.000000541 * Year^2*Day^1*Country/Region^1 +
 0.000001471 * Year^2*Day^1*Aircraft Manufacturer^1 + -0.000000283 *
 Year^2*Day^1*Aircraft^1 + -0.000000044 * Year^2*Day^1*Location^1 + -0.000000005 *
 Year^2*Day^1*Operator^1 + 0.000147282 * Year^2*Day^1*Sum of Ground^1 + 0.000007928
 * Year^2*Day^1*Sum of Aboard^1 + -0.000000012 * Year^2*Country/Region^2 +
 0.000000009 * Year^2*Country/Region^1*Aircraft Manufacturer^1 + -0.000000001 *
 Year^2*Country/Region^1*Aircraft^1 + -0.000000001 * Year^2*Country/Region^1*Location^1 +
 0.000000001 * Year^2*Country/Region^1*Operator^1 + -0.000060823 *
 Year^2*Country/Region^1*Sum of Ground^1 + 0.000000366 * Year^2*Country/Region^1*Sum
 of Aboard^1 + 0.000000143 * Year^2*Aircraft Manufacturer^2 + -0.000000037 *
 Year^2*Aircraft Manufacturer^1*Aircraft^1 + 0.000000006 * Year^2*Aircraft
 Manufacturer^1*Location^1 + -0.000000011 * Year^2*Aircraft Manufacturer^1*Operator^1 +
 0.000619915 * Year^2*Aircraft Manufacturer^1*Sum of Ground^1 + -0.000000967 *
 Year^2*Aircraft Manufacturer^1*Sum of Aboard^1 + 0.000000002 * Year^2*Aircraft^2 + -

0.000000001 * Year^2*Aircraft^1*Location^1 + 0.000000002 * Year^2*Aircraft^1*Operator^1
 + -0.000088843 * Year^2*Aircraft^1*Sum of Ground^1 + 0.000000192 *
 Year^2*Aircraft^1*Sum of Aboard^1 + 0.000000000 * Year^2*Location^2 + 0.000000000 *
 Year^2*Location^1*Operator^1 + -0.000015992 * Year^2*Location^1*Sum of Ground^1 + -
 0.000000062 * Year^2*Location^1*Sum of Aboard^1 + -0.000000000 * Year^2*Operator^2 +
 0.000016503 * Year^2*Operator^1*Sum of Ground^1 + -0.000000067 *
 Year^2*Operator^1*Sum of Aboard^1 + -0.000131856 * Year^2*Sum of Ground^2 + -
 0.000039727 * Year^2*Sum of Ground^1*Sum of Aboard^1 + -0.000001678 * Year^2*Sum of
 Aboard^2 + -0.042489253 * Year^1*Quarter^3 + -0.010427646 * Year^1*Quarter^2*Month^1
 + 0.001424996 * Year^1*Quarter^2*Day^1 + 0.000030594 *
 Year^1*Quarter^2*Country/Region^1 + -0.000379731 * Year^1*Quarter^2*Aircraft
 Manufacturer^1 + 0.000053135 * Year^1*Quarter^2*Aircraft^1 + 0.000008955 *
 Year^1*Quarter^2*Location^1 + -0.000008532 * Year^1*Quarter^2*Operator^1 + -
 0.000032663 * Year^1*Quarter^2*Sum of Ground^1 + -0.000015492 * Year^1*Quarter^2*Sum
 of Aboard^1 + 0.003220475 * Year^1*Quarter^1*Month^2 + -0.000805517 *
 Year^1*Quarter^1*Month^1*Day^1 + 0.000037705 *
 Year^1*Quarter^1*Month^1*Country/Region^1 + 0.000046826 *
 Year^1*Quarter^1*Month^1*Aircraft Manufacturer^1 + -0.000004353 *
 Year^1*Quarter^1*Month^1*Aircraft^1 + -0.000001494 *
 Year^1*Quarter^1*Month^1*Location^1 + 0.000001641 *
 Year^1*Quarter^1*Month^1*Operator^1 + -0.000072514 * Year^1*Quarter^1*Month^1*Sum
 of Ground^1 + 0.000716251 * Year^1*Quarter^1*Month^1*Sum of Aboard^1 + 0.000001159 *
 Year^1*Quarter^1*Day^2 + -0.000007936 * Year^1*Quarter^1*Day^1*Country/Region^1 + -
 0.000033975 * Year^1*Quarter^1*Day^1*Aircraft Manufacturer^1 + 0.000005549 *
 Year^1*Quarter^1*Day^1*Aircraft^1 + -0.000000564 * Year^1*Quarter^1*Day^1*Location^1
 + 0.000000978 * Year^1*Quarter^1*Day^1*Operator^1 + -0.000111918 *
 Year^1*Quarter^1*Day^1*Sum of Ground^1 + 0.000033537 * Year^1*Quarter^1*Day^1*Sum
 of Aboard^1 + 0.000000035 * Year^1*Quarter^1*Country/Region^2 + 0.000003330 *
 Year^1*Quarter^1*Country/Region^1*Aircraft Manufacturer^1 + -0.000000533 *
 Year^1*Quarter^1*Country/Region^1*Aircraft^1 + 0.000000058 *
 Year^1*Quarter^1*Country/Region^1*Location^1 + 0.000000061 *
 Year^1*Quarter^1*Country/Region^1*Operator^1 + -0.000359168 *
 Year^1*Quarter^1*Country/Region^1*Sum of Ground^1 + 0.000009015 *
 Year^1*Quarter^1*Country/Region^1*Sum of Aboard^1 + -0.000001033 *
 Year^1*Quarter^1*Aircraft Manufacturer^2 + 0.000000895 * Year^1*Quarter^1*Aircraft
 Manufacturer^1*Aircraft^1 + -0.000000002 * Year^1*Quarter^1*Aircraft
 Manufacturer^1*Location^1 + 0.000000153 * Year^1*Quarter^1*Aircraft
 Manufacturer^1*Operator^1 + -0.000306747 * Year^1*Quarter^1*Aircraft
 Manufacturer^1*Sum of Ground^1 + -0.000012320 * Year^1*Quarter^1*Aircraft
 Manufacturer^1*Sum of Aboard^1 + -0.000000122 * Year^1*Quarter^1*Aircraft^2 + -
 0.000000007 * Year^1*Quarter^1*Aircraft^1*Location^1 + -0.000000045 *
 Year^1*Quarter^1*Aircraft^1*Operator^1 + 0.000015460 * Year^1*Quarter^1*Aircraft^1*Sum
 of Ground^1 + 0.000000267 * Year^1*Quarter^1*Aircraft^1*Sum of Aboard^1 + 0.000000007
 * Year^1*Quarter^1*Location^2 + -0.000000004 * Year^1*Quarter^1*Location^1*Operator^1
 + -0.000014146 * Year^1*Quarter^1*Location^1*Sum of Ground^1 + 0.000000472 *
 Year^1*Quarter^1*Location^1*Sum of Aboard^1 + 0.000000014 *

Year^1*Quarter^1*Operator^2 + -0.000000054 * Year^1*Quarter^1*Operator^1*Sum of Ground^1 + 0.000000477 * Year^1*Quarter^1*Operator^1*Sum of Aboard^1 + -0.000165206 * Year^1*Quarter^1*Sum of Ground^2 + -0.000600533 * Year^1*Quarter^1*Sum of Ground^1*Sum of Aboard^1 + 0.000006662 * Year^1*Quarter^1*Sum of Aboard^2 + -0.001118968 * Year^1*Month^3 + 0.000250310 * Year^1*Month^2*Day^1 + -0.000008378 * Year^1*Month^2*Country/Region^1 + -0.000005133 * Year^1*Month^2*Aircraft Manufacturer^1 + 0.000000479 * Year^1*Month^2*Aircraft^1 + 0.000000155 * Year^1*Month^2*Location^1 + -0.000001137 * Year^1*Month^2*Operator^1 + -0.000206085 * Year^1*Month^2*Sum of Ground^1 + -0.000168750 * Year^1*Month^2*Sum of Aboard^1 + -0.000010545 * Year^1*Month^1*Day^2 + -0.000003253 * Year^1*Month^1*Day^1*Country/Region^1 + -0.000006725 * Year^1*Month^1*Day^1*Aircraft Manufacturer^1 + 0.000000730 * Year^1*Month^1*Day^1*Aircraft^1 + 0.000000092 * Year^1*Month^1*Day^1*Location^1 + 0.000000339 * Year^1*Month^1*Day^1*Operator^1 + 0.000106171 * Year^1*Month^1*Day^1*Sum of Ground^1 + -0.000045567 * Year^1*Month^1*Day^1*Sum of Aboard^1 + 0.000000186 * Year^1*Month^1*Country/Region^2 + -0.000000316 * Year^1*Month^1*Country/Region^1*Aircraft Manufacturer^1 + 0.000000077 * Year^1*Month^1*Country/Region^1*Aircraft^1 + -0.000000025 * Year^1*Month^1*Country/Region^1*Location^1 + -0.000000022 * Year^1*Month^1*Country/Region^1*Operator^1 + 0.000313965 * Year^1*Month^1*Country/Region^1*Sum of Ground^1 + 0.000002471 * Year^1*Month^1*Country/Region^1*Sum of Aboard^1 + 0.000000673 * Year^1*Month^1*Aircraft Manufacturer^2 + -0.000000321 * Year^1*Month^1*Aircraft Manufacturer^1*Aircraft^1 + 0.000000005 * Year^1*Month^1*Aircraft Manufacturer^1*Location^1 + -0.000000066 * Year^1*Month^1*Aircraft Manufacturer^1*Operator^1 + -0.001024212 * Year^1*Month^1*Aircraft Manufacturer^1*Sum of Ground^1 + 0.000008373 * Year^1*Month^1*Aircraft Manufacturer^1*Sum of Aboard^1 + 0.000000030 * Year^1*Month^1*Aircraft^2 + -0.000000003 * Year^1*Month^1*Aircraft^1*Location^1 + 0.000000012 * Year^1*Month^1*Aircraft^1*Operator^1 + 0.000025238 * Year^1*Month^1*Aircraft^1*Sum of Ground^1 + -0.000002066 * Year^1*Month^1*Aircraft^1*Sum of Aboard^1 + 0.0000000000 * Year^1*Month^1*Location^2 + 0.000000007 * Year^1*Month^1*Location^1*Operator^1 + 0.000080456 * Year^1*Month^1*Location^1*Sum of Ground^1 + 0.000000551 * Year^1*Month^1*Location^1*Sum of Aboard^1 + -0.000000006 * Year^1*Month^1*Operator^2 + -0.000046870 * Year^1*Month^1*Operator^1*Sum of Ground^1 + 0.000000247 * Year^1*Month^1*Operator^1*Sum of Aboard^1 + -0.000893614 * Year^1*Month^1*Sum of Ground^2 + 0.000249259 * Year^1*Month^1*Sum of Ground^1*Sum of Aboard^1 + -0.000005475 * Year^1*Month^1*Sum of Aboard^2 + -0.000014825 * Year^1*Day^3 + 0.000001110 * Year^1*Day^2*Country/Region^1 + 0.000004425 * Year^1*Day^2*Aircraft Manufacturer^1 + -0.000000812 * Year^1*Day^2*Aircraft^1 + -0.000000080 * Year^1*Day^2*Location^1 + -0.000000117 * Year^1*Day^2*Operator^1 + 0.000488627 * Year^1*Day^2*Sum of Ground^1 + -0.000016850 * Year^1*Day^2*Sum of Aboard^1 + -0.000000019 * Year^1*Day^1*Country/Region^2 + 0.000000034 * Year^1*Day^1*Country/Region^1*Aircraft Manufacturer^1 + -0.000000018 * Year^1*Day^1*Country/Region^1*Aircraft^1 + 0.000000005 * Year^1*Day^1*Country/Region^1*Location^1 + 0.000000008 *

Year^1*Day^1*Country/Region^1*Operator^1 + -0.000150343 *
 Year^1*Day^1*Country/Region^1*Sum of Ground^1 + 0.000000585 *
 Year^1*Day^1*Country/Region^1*Sum of Aboard^1 + 0.000000069 * Year^1*Day^1*Aircraft
 Manufacturer^2 + -0.000000009 * Year^1*Day^1*Aircraft Manufacturer^1*Aircraft^1 +
 0.000000006 * Year^1*Day^1*Aircraft Manufacturer^1*Location^1 + -0.000000033 *
 Year^1*Day^1*Aircraft Manufacturer^1*Operator^1 + 0.000035289 * Year^1*Day^1*Aircraft
 Manufacturer^1*Sum of Ground^1 + -0.000002936 * Year^1*Day^1*Aircraft
 Manufacturer^1*Sum of Aboard^1 + 0.000000001 * Year^1*Day^1*Aircraft^2 + -0.000000001
 * Year^1*Day^1*Aircraft^1*Location^1 + 0.000000006 *
 Year^1*Day^1*Aircraft^1*Operator^1 + -0.000037799 * Year^1*Day^1*Aircraft^1*Sum of
 Ground^1 + 0.000000640 * Year^1*Day^1*Aircraft^1*Sum of Aboard^1 + 0.000000001 *
 Year^1*Day^1*Location^2 + 0.000000001 * Year^1*Day^1*Location^1*Operator^1 +
 0.000017744 * Year^1*Day^1*Location^1*Sum of Ground^1 + 0.000000231 *
 Year^1*Day^1*Location^1*Sum of Aboard^1 + -0.000000003 * Year^1*Day^1*Operator^2 + -
 0.000001663 * Year^1*Day^1*Operator^1*Sum of Ground^1 + -0.000000251 *
 Year^1*Day^1*Operator^1*Sum of Aboard^1 + 0.000184924 * Year^1*Day^1*Sum of
 Ground^2 + 0.000345605 * Year^1*Day^1*Sum of Ground^1*Sum of Aboard^1 +
 0.000000391 * Year^1*Day^1*Sum of Aboard^2 + -0.000000002 * Year^1*Country/Region^3
 + 0.000000001 * Year^1*Country/Region^2*Aircraft Manufacturer^1 + 0.000000000 *
 Year^1*Country/Region^2*Aircraft^1 + -0.000000000 * Year^1*Country/Region^2*Location^1
 + 0.000000001 * Year^1*Country/Region^2*Operator^1 + -0.000016847 *
 Year^1*Country/Region^2*Sum of Ground^1 + 0.000000092 * Year^1*Country/Region^2*Sum
 of Aboard^1 + -0.000000007 * Year^1*Country/Region^1*Aircraft Manufacturer^2 +
 0.000000003 * Year^1*Country/Region^1*Aircraft Manufacturer^1*Aircraft^1 + 0.000000000
 * Year^1*Country/Region^1*Aircraft Manufacturer^1*Location^1 + 0.000000002 *
 Year^1*Country/Region^1*Aircraft Manufacturer^1*Operator^1 + -0.000062361 *
 Year^1*Country/Region^1*Aircraft Manufacturer^1*Sum of Ground^1 + -0.000000338 *
 Year^1*Country/Region^1*Aircraft Manufacturer^1*Sum of Aboard^1 + -0.000000000 *
 Year^1*Country/Region^1*Aircraft^2 + 0.000000000 *
 Year^1*Country/Region^1*Aircraft^1*Location^1 + -0.000000000 *
 Year^1*Country/Region^1*Aircraft^1*Operator^1 + 0.000015452 *
 Year^1*Country/Region^1*Aircraft^1*Sum of Ground^1 + 0.000000054 *
 Year^1*Country/Region^1*Aircraft^1*Sum of Aboard^1 + 0.000000000 *
 Year^1*Country/Region^1*Location^2 + 0.000000000 *
 Year^1*Country/Region^1*Location^1*Operator^1 + 0.000002883 *
 Year^1*Country/Region^1*Location^1*Sum of Ground^1 + -0.000000003 *
 Year^1*Country/Region^1*Location^1*Sum of Aboard^1 + 0.000000000 *
 Year^1*Country/Region^1*Operator^2 + 0.0000000504 *
 Year^1*Country/Region^1*Operator^1*Sum of Ground^1 + 0.000000017 *
 Year^1*Country/Region^1*Operator^1*Sum of Aboard^1 + -0.000022999 *
 Year^1*Country/Region^1*Sum of Ground^2 + 0.000085895 * Year^1*Country/Region^1*Sum
 of Ground^1*Sum of Aboard^1 + -0.000000108 * Year^1*Country/Region^1*Sum of Aboard^2
 + -0.000000054 * Year^1*Aircraft Manufacturer^3 + 0.000000015 * Year^1*Aircraft
 Manufacturer^2*Aircraft^1 + -0.000000004 * Year^1*Aircraft Manufacturer^2*Location^1 +
 0.000000001 * Year^1*Aircraft Manufacturer^2*Operator^1 + -0.000114175 * Year^1*Aircraft
 Manufacturer^2*Sum of Ground^1 + -0.000000003 * Year^1*Aircraft Manufacturer^2*Sum of

Aboard^1 + -0.000000000 * Year^1*Aircraft Manufacturer^1*Aircraft^2 + 0.000000001 * Year^1*Aircraft Manufacturer^1*Aircraft^1*Location^1 + -0.000000001 * Year^1*Aircraft Manufacturer^1*Aircraft^1*Operator^1 + 0.000023043 * Year^1*Aircraft Manufacturer^1*Aircraft^1*Sum of Ground^1 + -0.000000035 * Year^1*Aircraft Manufacturer^1*Aircraft^1*Sum of Aboard^1 + -0.000000000 * Year^1*Aircraft Manufacturer^1*Location^2 + 0.000000000 * Year^1*Aircraft Manufacturer^1*Location^1*Operator^1 + -0.000001592 * Year^1*Aircraft Manufacturer^1*Location^1*Sum of Ground^1 + -0.000000017 * Year^1*Aircraft Manufacturer^1*Location^1*Sum of Aboard^1 + -0.000000000 * Year^1*Aircraft Manufacturer^1*Operator^2 + -0.000023143 * Year^1*Aircraft Manufacturer^1*Operator^1*Sum of Ground^1 + 0.000000012 * Year^1*Aircraft Manufacturer^1*Operator^1*Sum of Aboard^1 + 0.000069086 * Year^1*Aircraft Manufacturer^1*Sum of Ground^2 + 0.000230336 * Year^1*Aircraft Manufacturer^1*Sum of Ground^1*Sum of Aboard^1 + 0.000002359 * Year^1*Aircraft Manufacturer^1*Sum of Aboard^2 + -0.000000000 * Year^1*Aircraft^3 + -0.000000000 * Year^1*Aircraft^2*Location^1 + 0.000000000 * Year^1*Aircraft^2*Operator^1 + -0.000001187 * Year^1*Aircraft^2*Sum of Ground^1 + 0.000000006 * Year^1*Aircraft^2*Sum of Aboard^1 + 0.000000000 * Year^1*Aircraft^1*Location^2 + -0.000000000 * Year^1*Aircraft^1*Location^1*Operator^1 + 0.000000314 * Year^1*Aircraft^1*Location^1*Sum of Ground^1 + 0.000000001 * Year^1*Aircraft^1*Location^1*Sum of Aboard^1 + 0.000000000 * Year^1*Aircraft^1*Operator^2 + 0.000003368 * Year^1*Aircraft^1*Operator^1*Sum of Ground^1 + -0.000000003 * Year^1*Aircraft^1*Operator^1*Sum of Aboard^1 + 0.000002191 * Year^1*Aircraft^1*Sum of Ground^2 + -0.000018151 * Year^1*Aircraft^1*Sum of Ground^1*Sum of Aboard^1 + -0.000000424 * Year^1*Aircraft^1*Sum of Aboard^2 + -0.000000000 * Year^1*Location^3 + -0.000000000 * Year^1*Location^2*Operator^1 + 0.000000198 * Year^1*Location^2*Sum of Ground^1 + 0.000000000 * Year^1*Location^2*Sum of Aboard^1 + 0.000000000 * Year^1*Location^1*Operator^2 + -0.000000450 * Year^1*Location^1*Operator^1*Sum of Ground^1 + 0.000000001 * Year^1*Location^1*Operator^1*Sum of Aboard^1 + 0.000021837 * Year^1*Location^1*Sum of Ground^2 + 0.000000145 * Year^1*Location^1*Sum of Ground^1*Sum of Aboard^1 + -0.000000006 * Year^1*Location^1*Sum of Aboard^2 + -0.000000000 * Year^1*Operator^3 + -0.000000016 * Year^1*Operator^2*Sum of Ground^1 + -0.000000002 * Year^1*Operator^2*Sum of Aboard^1 + -0.000014007 * Year^1*Operator^1*Sum of Ground^2 + -0.000019650 * Year^1*Operator^1*Sum of Ground^1*Sum of Aboard^1 + 0.000000036 * Year^1*Operator^1*Sum of Aboard^2 + -0.001110915 * Year^1*Sum of Ground^3 + 0.001154957 * Year^1*Sum of Ground^2*Sum of Aboard^1 + -0.000235441 * Year^1*Sum of Ground^1*Sum of Aboard^2 + 0.000000126 * Year^1*Sum of Aboard^3 + -3.358554960 * Quarter^4 + 4.178594754 * Quarter^3*Month^1 + -0.044660959 * Quarter^3*Day^1 + 0.008738655 * Quarter^3*Country/Region^1 + 0.040028366 * Quarter^3*Aircraft Manufacturer^1 + -0.005553955 * Quarter^3*Aircraft^1 + 0.002016614 * Quarter^3*Location^1 + 0.002215029 * Quarter^3*Operator^1 + -0.000001128 * Quarter^3*Sum of Ground^1 + 0.040398915 * Quarter^3*Sum of Aboard^1 + -1.606501609 * Quarter^2*Month^2 + -0.007274331 * Quarter^2*Month^1*Day^1 + 0.001150055 * Quarter^2*Month^1*Country/Region^1 + 0.010909683 * Quarter^2*Month^1*Aircraft Manufacturer^1 + -0.001595845 * Quarter^2*Month^1*Aircraft^1 + 0.000540304 *

Quarter^2*Month^1*Location^1 + 0.000963775 * Quarter^2*Month^1*Operator^1 + -0.000005403 * Quarter^2*Month^1*Sum of Ground^1 + 0.032901870 *
Quarter^2*Month^1*Sum of Aboard^1 + -0.000285852 * Quarter^2*Day^2 + -0.000154749 *
Quarter^2*Day^1*Country/Region^1 + 0.001203325 * Quarter^2*Day^1*Aircraft
Manufacturer^1 + -0.000149116 * Quarter^2*Day^1*Aircraft^1 + 0.000014337 *
Quarter^2*Day^1*Location^1 + 0.000047963 * Quarter^2*Day^1*Operator^1 + -0.000014785
* Quarter^2*Day^1*Sum of Ground^1 + 0.002246912 * Quarter^2*Day^1*Sum of Aboard^1 + -0.000004862 * Quarter^2*Country/Region^2 + -0.000024219 *
Quarter^2*Country/Region^1*Aircraft Manufacturer^1 + 0.000008313 *
Quarter^2*Country/Region^1*Aircraft^1 + -0.000001364 *
Quarter^2*Country/Region^1*Location^1 + 0.000000400 *
Quarter^2*Country/Region^1*Operator^1 + 0.000030821 * Quarter^2*Country/Region^1*Sum of Ground^1 + -0.000040522 * Quarter^2*Country/Region^1*Sum of Aboard^1 + 0.000042419
* Quarter^2*Aircraft Manufacturer^2 + -0.000004055 * Quarter^2*Aircraft
Manufacturer^1*Aircraft^1 + 0.000010466 * Quarter^2*Aircraft Manufacturer^1*Location^1 + -0.000008793 * Quarter^2*Aircraft Manufacturer^1*Operator^1 + -0.000011410 *
Quarter^2*Aircraft Manufacturer^1*Sum of Ground^1 + -0.000265656 * Quarter^2*Aircraft
Manufacturer^1*Sum of Aboard^1 + -0.000000456 * Quarter^2*Aircraft^2 + -0.000001445 *
Quarter^2*Aircraft^1*Location^1 + 0.000000970 * Quarter^2*Aircraft^1*Operator^1 + -0.000149462 * Quarter^2*Aircraft^1*Sum of Ground^1 + 0.000012694 *
Quarter^2*Aircraft^1*Sum of Aboard^1 + -0.000000127 * Quarter^2*Location^2 + -0.000000040 * Quarter^2*Location^1*Operator^1 + -0.000190739 *
Quarter^2*Location^1*Sum of Ground^1 + 0.000019767 * Quarter^2*Location^1*Sum of Aboard^1 + -0.000000011 * Quarter^2*Operator^2 + 0.000108269 *
Quarter^2*Operator^1*Sum of Ground^1 + 0.000003088 * Quarter^2*Operator^1*Sum of Aboard^1 + -0.000008859 * Quarter^2*Sum of Ground^2 + -0.000011176 * Quarter^2*Sum of Ground^1*Sum of Aboard^1 + -0.000311610 * Quarter^2*Sum of Aboard^2 + 0.367814690 *
Quarter^1*Month^3 + -0.005902583 * Quarter^1*Month^2*Day^1 + -0.000149867 *
Quarter^1*Month^2*Country/Region^1 + -0.002618203 * Quarter^1*Month^2*Aircraft
Manufacturer^1 + 0.000266601 * Quarter^1*Month^2*Aircraft^1 + -0.000158946 *
Quarter^1*Month^2*Location^1 + -0.000444216 * Quarter^1*Month^2*Operator^1 + -0.000015242 * Quarter^1*Month^2*Sum of Ground^1 + -0.013362888 *
Quarter^1*Month^2*Sum of Aboard^1 + -0.000447429 * Quarter^1*Month^1*Day^2 + 0.000009779 * Quarter^1*Month^1*Day^1*Country/Region^1 + -0.000626491 *
Quarter^1*Month^1*Day^1*Aircraft Manufacturer^1 + 0.000086656 *
Quarter^1*Month^1*Day^1*Aircraft^1 + -0.000006711 *
Quarter^1*Month^1*Day^1*Location^1 + -0.000018016 *
Quarter^1*Month^1*Day^1*Operator^1 + -0.000030404 * Quarter^1*Month^1*Day^1*Sum of Ground^1 + 0.000442661 * Quarter^1*Month^1*Day^1*Sum of Aboard^1 + -0.000003612 *
Quarter^1*Month^1*Country/Region^2 + 0.000010041 *
Quarter^1*Month^1*Country/Region^1*Aircraft Manufacturer^1 + -0.000001966 *
Quarter^1*Month^1*Country/Region^1*Aircraft^1 + 0.000000540 *
Quarter^1*Month^1*Country/Region^1*Location^1 + -0.000000362 *
Quarter^1*Month^1*Country/Region^1*Operator^1 + -0.000236802 *
Quarter^1*Month^1*Country/Region^1*Sum of Ground^1 + 0.000031417 *
Quarter^1*Month^1*Country/Region^1*Sum of Aboard^1 + -0.000043067 *

Quarter^1*Month^1*Aircraft Manufacturer^2 + 0.000015226 * Quarter^1*Month^1*Aircraft
Manufacturer^1*Aircraft^1 + 0.000001021 * Quarter^1*Month^1*Aircraft
Manufacturer^1*Location^1 + 0.000004000 * Quarter^1*Month^1*Aircraft
Manufacturer^1*Operator^1 + 0.000014392 * Quarter^1*Month^1*Aircraft
Manufacturer^1*Sum of Ground^1 + 0.000287364 * Quarter^1*Month^1*Aircraft
Manufacturer^1*Sum of Aboard^1 + -0.000001529 * Quarter^1*Month^1*Aircraft^2 + -
0.000000204 * Quarter^1*Month^1*Aircraft^1*Location^1 + -0.000000721 *
Quarter^1*Month^1*Aircraft^1*Operator^1 + 0.000135692 *
Quarter^1*Month^1*Aircraft^1*Sum of Ground^1 + -0.000041989 *
Quarter^1*Month^1*Aircraft^1*Sum of Aboard^1 + 0.000000104 *
Quarter^1*Month^1*Location^2 + -0.000000038 *
Quarter^1*Month^1*Location^1*Operator^1 + -0.000605270 *
Quarter^1*Month^1*Location^1*Sum of Ground^1 + 0.000002809 *
Quarter^1*Month^1*Location^1*Sum of Aboard^1 + 0.000000142 *
Quarter^1*Month^1*Operator^2 + 0.000098036 * Quarter^1*Month^1*Operator^1*Sum of
Ground^1 + 0.000011245 * Quarter^1*Month^1*Operator^1*Sum of Aboard^1 + -0.000019224
* Quarter^1*Month^1*Sum of Ground^2 + -0.000022114 * Quarter^1*Month^1*Sum of
Ground^1*Sum of Aboard^1 + -0.000216819 * Quarter^1*Month^1*Sum of Aboard^2 +
0.000105979 * Quarter^1*Day^3 + -0.000001601 * Quarter^1*Day^2*Country/Region^1 +
0.000017865 * Quarter^1*Day^2*Aircraft Manufacturer^1 + -0.000001199 *
Quarter^1*Day^2*Aircraft^1 + 0.000004170 * Quarter^1*Day^2*Location^1 + 0.000001058 *
Quarter^1*Day^2*Operator^1 + -0.000071432 * Quarter^1*Day^2*Sum of Ground^1 + -
0.000135445 * Quarter^1*Day^2*Sum of Aboard^1 + -0.000000768 *
Quarter^1*Day^1*Country/Region^2 + 0.000002885 *
Quarter^1*Day^1*Country/Region^1*Aircraft Manufacturer^1 + -0.000000337 *
Quarter^1*Day^1*Country/Region^1*Aircraft^1 + -0.000000131 *
Quarter^1*Day^1*Country/Region^1*Location^1 + 0.000000020 *
Quarter^1*Day^1*Country/Region^1*Operator^1 + -0.000139506 *
Quarter^1*Day^1*Country/Region^1*Sum of Ground^1 + 0.000002361 *
Quarter^1*Day^1*Country/Region^1*Sum of Aboard^1 + -0.000011640 *
Quarter^1*Day^1*Aircraft Manufacturer^2 + 0.000003984 * Quarter^1*Day^1*Aircraft
Manufacturer^1*Aircraft^1 + -0.000000717 * Quarter^1*Day^1*Aircraft
Manufacturer^1*Location^1 + -0.000001017 * Quarter^1*Day^1*Aircraft
Manufacturer^1*Operator^1 + 0.000019885 * Quarter^1*Day^1*Aircraft Manufacturer^1*Sum
of Ground^1 + 0.000056879 * Quarter^1*Day^1*Aircraft Manufacturer^1*Sum of Aboard^1 + -
0.000000298 * Quarter^1*Day^1*Aircraft^2 + 0.000000079 *
Quarter^1*Day^1*Aircraft^1*Location^1 + 0.000000178 *
Quarter^1*Day^1*Aircraft^1*Operator^1 + 0.000198667 * Quarter^1*Day^1*Aircraft^1*Sum
of Ground^1 + -0.000011155 * Quarter^1*Day^1*Aircraft^1*Sum of Aboard^1 + 0.000000001
* Quarter^1*Day^1*Location^2 + -0.000000033 * Quarter^1*Day^1*Location^1*Operator^1 +
0.000124377 * Quarter^1*Day^1*Location^1*Sum of Ground^1 + 0.000001375 *
Quarter^1*Day^1*Location^1*Sum of Aboard^1 + 0.000000027 *
Quarter^1*Day^1*Operator^2 + -0.000235668 * Quarter^1*Day^1*Operator^1*Sum of
Ground^1 + 0.000000252 * Quarter^1*Day^1*Operator^1*Sum of Aboard^1 + -0.000033148 *
Quarter^1*Day^1*Sum of Ground^2 + -0.000194056 * Quarter^1*Day^1*Sum of
Ground^1*Sum of Aboard^1 + -0.000030082 * Quarter^1*Day^1*Sum of Aboard^2 +

0.000000042 * Quarter^1*Country/Region^3 + -0.000000298 *
Quarter^1*Country/Region^2*Aircraft Manufacturer^1 + 0.000000035 *
Quarter^1*Country/Region^2*Aircraft^1 + -0.000000015 *
Quarter^1*Country/Region^2*Location^1 + 0.000000023 *
Quarter^1*Country/Region^2*Operator^1 + 0.000200449 * Quarter^1*Country/Region^2*Sum
of Ground^1 + 0.000000245 * Quarter^1*Country/Region^2*Sum of Aboard^1 + -0.000000758
* Quarter^1*Country/Region^1*Aircraft Manufacturer^2 + 0.000000221 *
Quarter^1*Country/Region^1*Aircraft Manufacturer^1*Aircraft^1 + 0.000000060 *
Quarter^1*Country/Region^1*Aircraft Manufacturer^1*Location^1 + 0.000000020 *
Quarter^1*Country/Region^1*Aircraft Manufacturer^1*Operator^1 + -0.000137890 *
Quarter^1*Country/Region^1*Aircraft Manufacturer^1*Sum of Ground^1 + 0.000006217 *
Quarter^1*Country/Region^1*Aircraft Manufacturer^1*Sum of Aboard^1 + -0.000000017 *
Quarter^1*Country/Region^1*Aircraft^2 + -0.000000008 *
Quarter^1*Country/Region^1*Aircraft^1*Location^1 + -0.000000002 *
Quarter^1*Country/Region^1*Aircraft^1*Operator^1 + 0.000008858 *
Quarter^1*Country/Region^1*Aircraft^1*Sum of Ground^1 + -0.000000849 *
Quarter^1*Country/Region^1*Aircraft^1*Sum of Aboard^1 + -0.000000002 *
Quarter^1*Country/Region^1*Location^2 + -0.000000001 *
Quarter^1*Country/Region^1*Location^1*Operator^1 + 0.000012089 *
Quarter^1*Country/Region^1*Location^1*Sum of Ground^1 + 0.000000053 *
Quarter^1*Country/Region^1*Location^1*Sum of Aboard^1 + 0.000000001 *
Quarter^1*Country/Region^1*Operator^2 + -0.000021554 *
Quarter^1*Country/Region^1*Operator^1*Sum of Ground^1 + -0.000000073 *
Quarter^1*Country/Region^1*Operator^1*Sum of Aboard^1 + 0.000192856 *
Quarter^1*Country/Region^1*Sum of Ground^2 + -0.000840458 *
Quarter^1*Country/Region^1*Sum of Ground^1*Sum of Aboard^1 + -0.000000572 *
Quarter^1*Country/Region^1*Sum of Aboard^2 + 0.000002108 * Quarter^1*Aircraft
Manufacturer^3 + -0.000000162 * Quarter^1*Aircraft Manufacturer^2*Aircraft^1 + -
0.000000076 * Quarter^1*Aircraft Manufacturer^2*Location^1 + 0.000000189 *
Quarter^1*Aircraft Manufacturer^2*Operator^1 + 0.000102123 * Quarter^1*Aircraft
Manufacturer^2*Sum of Ground^1 + 0.000018023 * Quarter^1*Aircraft Manufacturer^2*Sum
of Aboard^1 + -0.000000118 * Quarter^1*Aircraft Manufacturer^1*Aircraft^2 + 0.000000022 *
Quarter^1*Aircraft Manufacturer^1*Aircraft^1*Location^1 + -0.000000046 *
Quarter^1*Aircraft Manufacturer^1*Aircraft^1*Operator^1 + 0.000041607 *
Quarter^1*Aircraft Manufacturer^1*Aircraft^1*Sum of Ground^1 + -0.000005703 *
Quarter^1*Aircraft Manufacturer^1*Aircraft^1*Sum of Aboard^1 + -0.000000002 *
Quarter^1*Aircraft Manufacturer^1*Location^2 + -0.000000002 * Quarter^1*Aircraft
Manufacturer^1*Location^1*Operator^1 + -0.000012839 * Quarter^1*Aircraft
Manufacturer^1*Location^1*Sum of Ground^1 + -0.000000119 * Quarter^1*Aircraft
Manufacturer^1*Location^1*Sum of Aboard^1 + -0.000000002 * Quarter^1*Aircraft
Manufacturer^1*Operator^2 + -0.000210480 * Quarter^1*Aircraft
Manufacturer^1*Operator^1*Sum of Ground^1 + -0.000000894 * Quarter^1*Aircraft
Manufacturer^1*Operator^1*Sum of Aboard^1 + -0.000090235 * Quarter^1*Aircraft
Manufacturer^1*Sum of Ground^2 + 0.000181678 * Quarter^1*Aircraft Manufacturer^1*Sum
of Ground^1*Sum of Aboard^1 + -0.000008247 * Quarter^1*Aircraft Manufacturer^1*Sum of
Aboard^2 + 0.000000015 * Quarter^1*Aircraft^3 + -0.000000001 *

Quarter^1*Aircraft^2*Location^1 + 0.000000002 * Quarter^1*Aircraft^2*Operator^1 + -
 0.000007106 * Quarter^1*Aircraft^2*Sum of Ground^1 + 0.000000444 *
 Quarter^1*Aircraft^2*Sum of Aboard^1 + 0.000000001 * Quarter^1*Aircraft^1*Location^2 +
 0.000000000 * Quarter^1*Aircraft^1*Location^1*Operator^1 + 0.000002364 *
 Quarter^1*Aircraft^1*Location^1*Sum of Ground^1 + 0.000000013 *
 Quarter^1*Aircraft^1*Location^1*Sum of Aboard^1 + 0.000000001 *
 Quarter^1*Aircraft^1*Operator^2 + 0.000028539 * Quarter^1*Aircraft^1*Operator^1*Sum of
 Ground^1 + 0.000000133 * Quarter^1*Aircraft^1*Operator^1*Sum of Aboard^1 + -
 0.000223293 * Quarter^1*Aircraft^1*Sum of Ground^2 + 0.000033482 *
 Quarter^1*Aircraft^1*Sum of Ground^1*Sum of Aboard^1 + 0.000001729 *
 Quarter^1*Aircraft^1*Sum of Aboard^2 + 0.000000000 * Quarter^1*Location^3 + 0.000000000
 * Quarter^1*Location^2*Operator^1 + 0.000002648 * Quarter^1*Location^2*Sum of Ground^1
 + -0.000000006 * Quarter^1*Location^2*Sum of Aboard^1 + -0.000000000 *
 Quarter^1*Location^1*Operator^2 + -0.000000980 * Quarter^1*Location^1*Operator^1*Sum
 of Ground^1 + 0.000000002 * Quarter^1*Location^1*Operator^1*Sum of Aboard^1 + -
 0.000014725 * Quarter^1*Location^1*Sum of Ground^2 + -0.000244671 *
 Quarter^1*Location^1*Sum of Ground^1*Sum of Aboard^1 + -0.000000884 *
 Quarter^1*Location^1*Sum of Aboard^2 + 0.000000001 * Quarter^1*Operator^3 + -
 0.000000685 * Quarter^1*Operator^2*Sum of Ground^1 + -0.000000023 *
 Quarter^1*Operator^2*Sum of Aboard^1 + 0.000461464 * Quarter^1*Operator^1*Sum of
 Ground^2 + 0.000321072 * Quarter^1*Operator^1*Sum of Ground^1*Sum of Aboard^1 +
 0.000000105 * Quarter^1*Operator^1*Sum of Aboard^2 + -0.000002019 * Quarter^1*Sum of
 Ground^3 + -0.000041105 * Quarter^1*Sum of Ground^2*Sum of Aboard^1 + -0.000423822 *
 Quarter^1*Sum of Ground^1*Sum of Aboard^2 + 0.000005952 * Quarter^1*Sum of Aboard^3
 + -0.012546523 * Month^4 + -0.002924037 * Month^3*Day^1 + 0.000288704 *
 Month^3*Country/Region^1 + 0.001398180 * Month^3*Aircraft Manufacturer^1 + -
 0.000199937 * Month^3*Aircraft^1 + 0.000086630 * Month^3*Location^1 + 0.000111734 *
 Month^3*Operator^1 + -0.000055686 * Month^3*Sum of Ground^1 + 0.003357405 *
 Month^3*Sum of Aboard^1 + -0.000203361 * Month^2*Day^2 + -0.000053260 *
 Month^2*Day^1*Country/Region^1 + 0.000182949 * Month^2*Day^1*Aircraft
 Manufacturer^1 + -0.000025093 * Month^2*Day^1*Aircraft^1 + 0.000000560 *
 Month^2*Day^1*Location^1 + 0.000002591 * Month^2*Day^1*Operator^1 + -0.000098791 *
 Month^2*Day^1*Sum of Ground^1 + 0.000281279 * Month^2*Day^1*Sum of Aboard^1 + -
 0.000000320 * Month^2*Country/Region^2 + -0.000006511 *
 Month^2*Country/Region^1*Aircraft Manufacturer^1 + 0.000001309 *
 Month^2*Country/Region^1*Aircraft^1 + -0.000000213 *
 Month^2*Country/Region^1*Location^1 + 0.000000167 *
 Month^2*Country/Region^1*Operator^1 + -0.000895348 * Month^2*Country/Region^1*Sum
 of Ground^1 + -0.000014603 * Month^2*Country/Region^1*Sum of Aboard^1 + 0.000004533
 * Month^2*Aircraft Manufacturer^2 + -0.000001264 * Month^2*Aircraft
 Manufacturer^1*Aircraft^1 + -0.000000156 * Month^2*Aircraft Manufacturer^1*Location^1 +
 -0.000000994 * Month^2*Aircraft Manufacturer^1*Operator^1 + -0.000208342 *
 Month^2*Aircraft Manufacturer^1*Sum of Ground^1 + -0.000165982 * Month^2*Aircraft
 Manufacturer^1*Sum of Aboard^1 + 0.000000149 * Month^2*Aircraft^2 + 0.000000058 *
 Month^2*Aircraft^1*Location^1 + 0.000000147 * Month^2*Aircraft^1*Operator^1 +
 0.000403518 * Month^2*Aircraft^1*Sum of Ground^1 + 0.000028643 *

Month^2*Aircraft^1*Sum of Aboard^1 + 0.000000007 * Month^2*Location^2 + -0.000000008
* Month^2*Location^1*Operator^1 + -0.000095320 * Month^2*Location^1*Sum of Ground^1
+ 0.000001256 * Month^2*Location^1*Sum of Aboard^1 + 0.000000049 *
Month^2*Operator^2 + 0.000048660 * Month^2*Operator^1*Sum of Ground^1 + -0.000006274
* Month^2*Operator^1*Sum of Aboard^1 + -0.000082383 * Month^2*Sum of Ground^2 + -
0.000009368 * Month^2*Sum of Ground^1*Sum of Aboard^1 + 0.000005289 * Month^2*Sum
of Aboard^2 + -0.000040388 * Month^1*Day^3 + 0.000002946 *
Month^1*Day^2*Country/Region^1 + 0.000023253 * Month^1*Day^2*Aircraft
Manufacturer^1 + -0.000003459 * Month^1*Day^2*Aircraft^1 + -0.000000494 *
Month^1*Day^2*Location^1 + -0.000000271 * Month^1*Day^2*Operator^1 + -0.000143025 *
Month^1*Day^2*Sum of Ground^1 + 0.000171754 * Month^1*Day^2*Sum of Aboard^1 +
0.000000265 * Month^1*Day^1*Country/Region^2 + -0.000000116 *
Month^1*Day^1*Country/Region^1*Aircraft Manufacturer^1 + 0.000000047 *
Month^1*Day^1*Country/Region^1*Aircraft^1 + 0.000000009 *
Month^1*Day^1*Country/Region^1*Location^1 + -0.000000039 *
Month^1*Day^1*Country/Region^1*Operator^1 + 0.000278289 *
Month^1*Day^1*Country/Region^1*Sum of Ground^1 + -0.000000177 *
Month^1*Day^1*Country/Region^1*Sum of Aboard^1 + -0.000000035 *
Month^1*Day^1*Aircraft Manufacturer^2 + -0.000000140 * Month^1*Day^1*Aircraft
Manufacturer^1*Aircraft^1 + 0.000000315 * Month^1*Day^1*Aircraft
Manufacturer^1*Location^1 + 0.000000427 * Month^1*Day^1*Aircraft
Manufacturer^1*Operator^1 + -0.000125638 * Month^1*Day^1*Aircraft Manufacturer^1*Sum
of Ground^1 + -0.000007114 * Month^1*Day^1*Aircraft Manufacturer^1*Sum of Aboard^1 +
0.000000018 * Month^1*Day^1*Aircraft^2 + -0.000000044 *
Month^1*Day^1*Aircraft^1*Location^1 + -0.000000071 *
Month^1*Day^1*Aircraft^1*Operator^1 + -0.000006818 * Month^1*Day^1*Aircraft^1*Sum of
Ground^1 + 0.000001273 * Month^1*Day^1*Aircraft^1*Sum of Aboard^1 + 0.000000007 *
Month^1*Day^1*Location^2 + 0.000000009 * Month^1*Day^1*Location^1*Operator^1 +
0.000121367 * Month^1*Day^1*Location^1*Sum of Ground^1 + -0.000001457 *
Month^1*Day^1*Location^1*Sum of Aboard^1 + -0.000000007 * Month^1*Day^1*Operator^2
+ -0.000005657 * Month^1*Day^1*Operator^1*Sum of Ground^1 + -0.000001984 *
Month^1*Day^1*Operator^1*Sum of Aboard^1 + -0.000145450 * Month^1*Day^1*Sum of
Ground^2 + -0.000003946 * Month^1*Day^1*Sum of Ground^1*Sum of Aboard^1 +
0.000011921 * Month^1*Day^1*Sum of Aboard^2 + -0.000000010 *
Month^1*Country/Region^3 + 0.000000022 * Month^1*Country/Region^2*Aircraft
Manufacturer^1 + -0.000000005 * Month^1*Country/Region^2*Aircraft^1 + 0.000000002 *
Month^1*Country/Region^2*Location^1 + -0.000000011 *
Month^1*Country/Region^2*Operator^1 + 0.000105073 * Month^1*Country/Region^2*Sum of
Ground^1 + -0.000000407 * Month^1*Country/Region^2*Sum of Aboard^1 + 0.000000022 *
Month^1*Country/Region^1*Aircraft Manufacturer^2 + -0.000000019 *
Month^1*Country/Region^1*Aircraft Manufacturer^1*Aircraft^1 + 0.000000000 *
Month^1*Country/Region^1*Aircraft Manufacturer^1*Location^1 + -0.000000010 *
Month^1*Country/Region^1*Aircraft Manufacturer^1*Operator^1 + 0.000275586 *
Month^1*Country/Region^1*Aircraft Manufacturer^1*Sum of Ground^1 + -0.000001054 *
Month^1*Country/Region^1*Aircraft Manufacturer^1*Sum of Aboard^1 + 0.000000003 *
Month^1*Country/Region^1*Aircraft^2 + -0.000000001 *

Month^1*Country/Region^1*Aircraft^1*Location^1 + 0.000000002 *
Month^1*Country/Region^1*Aircraft^1*Operator^1 + -0.000066195 *
Month^1*Country/Region^1*Aircraft^1*Sum of Ground^1 + 0.000000103 *
Month^1*Country/Region^1*Aircraft^1*Sum of Aboard^1 + 0.000000001 *
Month^1*Country/Region^1*Location^2 + -0.000000000 *
Month^1*Country/Region^1*Location^1*Operator^1 + -0.000011239 *
Month^1*Country/Region^1*Location^1*Sum of Ground^1 + -0.000000012 *
Month^1*Country/Region^1*Location^1*Sum of Aboard^1 + 0.000000001 *
Month^1*Country/Region^1*Operator^2 + -0.000006175 *
Month^1*Country/Region^1*Operator^1*Sum of Ground^1 + 0.000000052 *
Month^1*Country/Region^1*Operator^1*Sum of Aboard^1 + -0.001024771 *
Month^1*Country/Region^1*Sum of Ground^2 + -0.000178656 *
Month^1*Country/Region^1*Sum of Ground^1*Sum of Aboard^1 + -0.000002065 *
Month^1*Country/Region^1*Sum of Aboard^2 + -0.000000131 * Month^1*Aircraft
Manufacturer^3 + -0.000000132 * Month^1*Aircraft Manufacturer^2*Aircraft^1 + 0.000000027
* Month^1*Aircraft Manufacturer^2*Location^1 + 0.000000050 * Month^1*Aircraft
Manufacturer^2*Operator^1 + -0.000527916 * Month^1*Aircraft Manufacturer^2*Sum of
Ground^1 + -0.0000001021 * Month^1*Aircraft Manufacturer^2*Sum of Aboard^1 +
0.000000039 * Month^1*Aircraft Manufacturer^1*Aircraft^2 + -0.000000006 *
Month^1*Aircraft Manufacturer^1*Aircraft^1*Location^1 + -0.000000011 * Month^1*Aircraft
Manufacturer^1*Aircraft^1*Operator^1 + 0.000153987 * Month^1*Aircraft
Manufacturer^1*Aircraft^1*Sum of Ground^1 + 0.0000000237 * Month^1*Aircraft
Manufacturer^1*Aircraft^1*Sum of Aboard^1 + 0.000000003 * Month^1*Aircraft
Manufacturer^1*Location^2 + -0.000000001 * Month^1*Aircraft
Manufacturer^1*Location^1*Operator^1 + 0.000056280 * Month^1*Aircraft
Manufacturer^1*Location^1*Sum of Ground^1 + -0.0000000513 * Month^1*Aircraft
Manufacturer^1*Location^1*Sum of Aboard^1 + 0.000000001 * Month^1*Aircraft
Manufacturer^1*Operator^2 + -0.000063371 * Month^1*Aircraft
Manufacturer^1*Operator^1*Sum of Ground^1 + 0.0000000153 * Month^1*Aircraft
Manufacturer^1*Operator^1*Sum of Aboard^1 + 0.000303128 * Month^1*Aircraft
Manufacturer^1*Sum of Ground^2 + -0.000168873 * Month^1*Aircraft Manufacturer^1*Sum
of Ground^1*Sum of Aboard^1 + -0.000001140 * Month^1*Aircraft Manufacturer^1*Sum of
Aboard^2 + -0.000000002 * Month^1*Aircraft^3 + 0.000000000 *
Month^1*Aircraft^2*Location^1 + 0.000000000 * Month^1*Aircraft^2*Operator^1 + -
0.000008995 * Month^1*Aircraft^2*Sum of Ground^1 + -0.000000017 *
Month^1*Aircraft^2*Sum of Aboard^1 + -0.000000000 * Month^1*Aircraft^1*Location^2 +
0.000000000 * Month^1*Aircraft^1*Location^1*Operator^1 + -0.000007519 *
Month^1*Aircraft^1*Location^1*Sum of Ground^1 + 0.000000093 *
Month^1*Aircraft^1*Location^1*Sum of Aboard^1 + -0.000000000 *
Month^1*Aircraft^1*Operator^2 + 0.000010064 * Month^1*Aircraft^1*Operator^1*Sum of
Ground^1 + -0.000000009 * Month^1*Aircraft^1*Operator^1*Sum of Aboard^1 + 0.000162687
* Month^1*Aircraft^1*Sum of Ground^2 + 0.000046055 * Month^1*Aircraft^1*Sum of
Ground^1*Sum of Aboard^1 + 0.000000296 * Month^1*Aircraft^1*Sum of Aboard^2 + -
0.000000000 * Month^1*Location^3 + -0.000000000 * Month^1*Location^2*Operator^1 + -
0.000001634 * Month^1*Location^2*Sum of Ground^1 + -0.000000006 *
Month^1*Location^2*Sum of Aboard^1 + 0.000000000 * Month^1*Location^1*Operator^2 +

0.000001750 * Month^1*Location^1*Operator^1*Sum of Ground^1 + 0.000000005 *
Month^1*Location^1*Operator^1*Sum of Aboard^1 + -0.000006645 *
Month^1*Location^1*Sum of Ground^2 + 0.000005134 * Month^1*Location^1*Sum of
Ground^1*Sum of Aboard^1 + 0.000000131 * Month^1*Location^1*Sum of Aboard^2 + -
0.000000000 * Month^1*Operator^3 + -0.000000741 * Month^1*Operator^2*Sum of Ground^1
+ 0.000000010 * Month^1*Operator^2*Sum of Aboard^1 + -0.000053649 *
Month^1*Operator^1*Sum of Ground^2 + 0.000061738 * Month^1*Operator^1*Sum of
Ground^1*Sum of Aboard^1 + -0.000000068 * Month^1*Operator^1*Sum of Aboard^2 + -
0.000136229 * Month^1*Sum of Ground^3 + -0.000446996 * Month^1*Sum of Ground^2*Sum
of Aboard^1 + -0.000396739 * Month^1*Sum of Ground^1*Sum of Aboard^2 + 0.000000708 *
Month^1*Sum of Aboard^3 + 0.000032638 * Day^4 + 0.000002471 *
Day^3*Country/Region^1 + -0.000005316 * Day^3*Aircraft Manufacturer^1 + 0.000002185 *
Day^3*Aircraft^1 + 0.000000179 * Day^3*Location^1 + -0.000000072 * Day^3*Operator^1 +
0.000012153 * Day^3*Sum of Ground^1 + 0.000026610 * Day^3*Sum of Aboard^1 + -
0.000000067 * Day^2*Country/Region^2 + 0.000000424 * Day^2*Country/Region^1*Aircraft
Manufacturer^1 + -0.000000058 * Day^2*Country/Region^1*Aircraft^1 + -0.000000014 *
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+ -0.000571385 * Day^2*Country/Region^1*Sum of Ground^1 + -0.000000480 *
Day^2*Country/Region^1*Sum of Aboard^1 + -0.000001862 * Day^2*Aircraft Manufacturer^2
+ 0.000000303 * Day^2*Aircraft Manufacturer^1*Aircraft^1 + 0.000000081 * Day^2*Aircraft
Manufacturer^1*Location^1 + -0.0000000270 * Day^2*Aircraft Manufacturer^1*Operator^1 + -
0.000119380 * Day^2*Aircraft Manufacturer^1*Sum of Ground^1 + -0.000000026 *
Day^2*Aircraft Manufacturer^1*Sum of Aboard^1 + 0.000000006 * Day^2*Aircraft^2 + -
0.000000017 * Day^2*Aircraft^1*Location^1 + 0.000000041 * Day^2*Aircraft^1*Operator^1 +
0.000105402 * Day^2*Aircraft^1*Sum of Ground^1 + -0.000000763 * Day^2*Aircraft^1*Sum
of Aboard^1 + 0.000000001 * Day^2*Location^2 + -0.000000001 *
Day^2*Location^1*Operator^1 + -0.000014726 * Day^2*Location^1*Sum of Ground^1 +
0.000000143 * Day^2*Location^1*Sum of Aboard^1 + 0.000000006 * Day^2*Operator^2 + -
0.000022320 * Day^2*Operator^1*Sum of Ground^1 + 0.000000126 * Day^2*Operator^1*Sum
of Aboard^1 + 0.000003499 * Day^2*Sum of Ground^2 + -0.000460444 * Day^2*Sum of
Ground^1*Sum of Aboard^1 + -0.000001750 * Day^2*Sum of Aboard^2 + -0.000000006 *
Day^1*Country/Region^3 + -0.000000027 * Day^1*Country/Region^2*Aircraft
Manufacturer^1 + 0.000000005 * Day^1*Country/Region^2*Aircraft^1 + -0.000000000 *
Day^1*Country/Region^2*Location^1 + -0.000000001 * Day^1*Country/Region^2*Operator^1
+ 0.000018594 * Day^1*Country/Region^2*Sum of Ground^1 + 0.000000034 *
Day^1*Country/Region^2*Sum of Aboard^1 + -0.000000031 *
Day^1*Country/Region^1*Aircraft Manufacturer^2 + 0.000000011 *
Day^1*Country/Region^1*Aircraft Manufacturer^1*Aircraft^1 + 0.000000005 *
Day^1*Country/Region^1*Aircraft Manufacturer^1*Location^1 + 0.000000011 *
Day^1*Country/Region^1*Aircraft Manufacturer^1*Operator^1 + -0.000110730 *
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Day^1*Country/Region^1*Aircraft^2 + -0.000000001 *
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Day^1*Country/Region^1*Aircraft^1*Operator^1 + 0.000017945 *
Day^1*Country/Region^1*Aircraft^1*Sum of Ground^1 + -0.0000000139 *

Day^1*Country/Region^1*Aircraft^1*Sum of Aboard^1 + -0.000000000 *
Day^1*Country/Region^1*Location^2 + -0.000000000 *
Day^1*Country/Region^1*Location^1*Operator^1 + -0.000000102 *
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Day^1*Country/Region^1*Operator^2 + 0.000012790 *
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of Ground^1*Sum of Aboard^1 + -0.000000188 * Day^1*Country/Region^1*Sum of Aboard^2
+ 0.000000022 * Day^1*Aircraft Manufacturer^3 + 0.000000022 * Day^1*Aircraft
Manufacturer^2*Aircraft^1 + -0.000000010 * Day^1*Aircraft Manufacturer^2*Location^1 +
0.000000004 * Day^1*Aircraft Manufacturer^2*Operator^1 + 0.000170832 * Day^1*Aircraft
Manufacturer^2*Sum of Ground^1 + 0.000001176 * Day^1*Aircraft Manufacturer^2*Sum of
Aboard^1 + -0.000000007 * Day^1*Aircraft Manufacturer^1*Aircraft^2 + 0.000000002 *
Day^1*Aircraft Manufacturer^1*Aircraft^1*Location^1 + -0.000000002 * Day^1*Aircraft
Manufacturer^1*Aircraft^1*Operator^1 + -0.000052223 * Day^1*Aircraft
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Manufacturer^1*Aircraft^1*Sum of Aboard^1 + -0.000000001 * Day^1*Aircraft
Manufacturer^1*Location^2 + -0.000000001 * Day^1*Aircraft
Manufacturer^1*Location^1*Operator^1 + 0.000018239 * Day^1*Aircraft
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Manufacturer^1*Location^1*Sum of Aboard^1 + -0.000000001 * Day^1*Aircraft
Manufacturer^1*Operator^2 + 0.000010175 * Day^1*Aircraft
Manufacturer^1*Operator^1*Sum of Ground^1 + -0.000000067 * Day^1*Aircraft
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Manufacturer^1*Sum of Ground^2 + 0.000169975 * Day^1*Aircraft Manufacturer^1*Sum of
Ground^1*Sum of Aboard^1 + 0.000000468 * Day^1*Aircraft Manufacturer^1*Sum of
Aboard^2 + 0.000000001 * Day^1*Aircraft^3 + -0.000000000 * Day^1*Aircraft^2*Location^1 +
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Ground^1 + 0.000000021 * Day^1*Aircraft^2*Sum of Aboard^1 + 0.000000000 *
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0.000002884 * Day^1*Aircraft^1*Location^1*Sum of Ground^1 + 0.000000004 *
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Day^1*Aircraft^1*Operator^2 + -0.000001726 * Day^1*Aircraft^1*Operator^1*Sum of
Ground^1 + 0.000000010 * Day^1*Aircraft^1*Operator^1*Sum of Aboard^1 + -0.000000360 *
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Ground^1*Sum of Aboard^1 + -0.000000069 * Day^1*Aircraft^1*Sum of Aboard^2 + -
0.000000000 * Day^1*Location^3 + -0.000000000 * Day^1*Location^2*Operator^1 + -
0.000000509 * Day^1*Location^2*Sum of Ground^1 + -0.000000002 *
Day^1*Location^2*Sum of Aboard^1 + -0.000000000 * Day^1*Location^1*Operator^2 +
0.000000117 * Day^1*Location^1*Operator^1*Sum of Ground^1 + -0.000000001 *
Day^1*Location^1*Operator^1*Sum of Aboard^1 + -0.000049968 * Day^1*Location^1*Sum
of Ground^2 + -0.000006391 * Day^1*Location^1*Sum of Ground^1*Sum of Aboard^1 + -
0.000000049 * Day^1*Location^1*Sum of Aboard^2 + 0.000000000 * Day^1*Operator^3 +
0.000000942 * Day^1*Operator^2*Sum of Ground^1 + -0.000000005 *

Day^1*Operator^2*Sum of Aboard^1 + -0.000153941 * Day^1*Operator^1*Sum of Ground^2 + -0.000024104 * Day^1*Operator^1*Sum of Ground^1*Sum of Aboard^1 + 0.000000042 * Day^1*Operator^1*Sum of Aboard^2 + -0.000119273 * Day^1*Sum of Ground^3 + 0.001188704 * Day^1*Sum of Ground^2*Sum of Aboard^1 + 0.000253328 * Day^1*Sum of Ground^1*Sum of Aboard^2 + -0.000000203 * Day^1*Sum of Aboard^3 + 0.000000001 * Country/Region^4 + 0.000000004 * Country/Region^3*Aircraft Manufacturer^1 + -0.000000001 * Country/Region^3*Aircraft^1 + 0.000000000 * Country/Region^3*Location^1 + 0.000000000 * Country/Region^3*Operator^1 + 0.000001099 * Country/Region^3*Sum of Ground^1 + -0.000000012 * Country/Region^3*Sum of Aboard^1 + 0.000000003 * Country/Region^2*Aircraft Manufacturer^2 + -0.000000001 * Country/Region^2*Aircraft Manufacturer^1*Aircraft^1 + -0.000000000 * Country/Region^2*Aircraft Manufacturer^1*Location^1 + -0.000000000 * Country/Region^2*Aircraft Manufacturer^1*Operator^1 + -0.000004082 * Country/Region^2*Aircraft Manufacturer^1*Sum of Ground^1 + 0.000000023 * Country/Region^2*Aircraft Manufacturer^1*Sum of Aboard^1 + 0.000000000 * Country/Region^2*Aircraft^2 + 0.000000000 * Country/Region^2*Aircraft^1*Location^1 + 0.000000000 * Country/Region^2*Aircraft^1*Operator^1 + 0.000000640 * Country/Region^2*Aircraft^1*Sum of Ground^1 + -0.000000004 * Country/Region^2*Aircraft^1*Sum of Aboard^1 + -0.000000000 * Country/Region^2*Location^2 + -0.000000000 * Country/Region^2*Location^1*Operator^1 + -0.000000211 * Country/Region^2*Location^1*Sum of Ground^1 + -0.000000000 * Country/Region^2*Location^1*Sum of Aboard^1 + -0.000000000 * Country/Region^2*Operator^2 + -0.000000959 * Country/Region^2*Operator^1*Sum of Ground^1 + 0.000000002 * Country/Region^2*Operator^1*Sum of Aboard^1 + -0.000000570 * Country/Region^2*Sum of Ground^2 + -0.000007248 * Country/Region^2*Sum of Ground^1*Sum of Aboard^1 + -0.000000020 * Country/Region^2*Sum of Aboard^2 + 0.000000013 * Country/Region^1*Aircraft Manufacturer^3 + -0.000000002 * Country/Region^1*Aircraft Manufacturer^2*Aircraft^1 + -0.000000000 * Country/Region^1*Aircraft Manufacturer^2*Location^1 + -0.000000000 * Country/Region^1*Aircraft Manufacturer^2*Operator^1 + -0.000028095 * Country/Region^1*Aircraft Manufacturer^2*Sum of Ground^1 + -0.0000000143 * Country/Region^1*Aircraft Manufacturer^2*Sum of Aboard^1 + -0.000000000 * Country/Region^1*Aircraft Manufacturer^1*Aircraft^2 + 0.000000000 * Country/Region^1*Aircraft Manufacturer^1*Aircraft^1*Location^1 + 0.000000000 * Country/Region^1*Aircraft Manufacturer^1*Aircraft^1*Operator^1 + 0.000009425 * Country/Region^1*Aircraft Manufacturer^1*Aircraft^1*Sum of Ground^1 + 0.000000048 * Country/Region^1*Aircraft Manufacturer^1*Aircraft^1*Sum of Aboard^1 + -0.000000000 * Country/Region^1*Aircraft Manufacturer^1*Location^2 + 0.000000000 * Country/Region^1*Aircraft Manufacturer^1*Location^1*Operator^1 + 0.000000809 * Country/Region^1*Aircraft Manufacturer^1*Location^1*Sum of Ground^1 + -0.000000001 * Country/Region^1*Aircraft Manufacturer^1*Location^1*Sum of Aboard^1 + -0.000000000 * Country/Region^1*Aircraft Manufacturer^1*Operator^2 + -0.000001854 * Country/Region^1*Aircraft Manufacturer^1*Operator^1*Sum of Ground^1 + -0.000000006 * Country/Region^1*Aircraft Manufacturer^1*Operator^1*Sum of Aboard^1 + -0.000006110 * Country/Region^1*Aircraft Manufacturer^1*Sum of Ground^2 + 0.000083175 * Country/Region^1*Aircraft Manufacturer^1*Sum of Ground^1*Sum of Aboard^1 + -

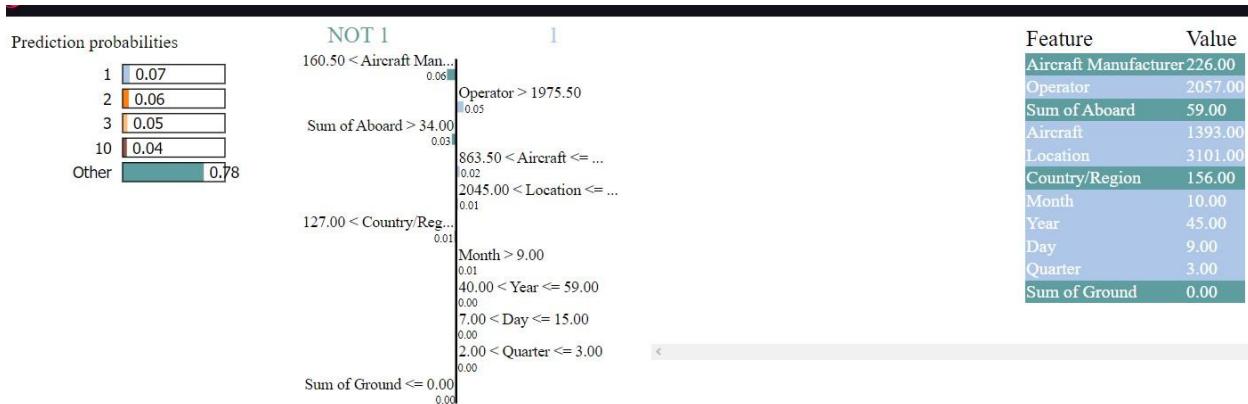
0.000000157 * Country/Region^1*Aircraft Manufacturer^1*Sum of Aboard^2 + 0.000000000 * Country/Region^1*Aircraft^3 + 0.000000000 * Country/Region^1*Aircraft^2*Location^1 + 0.000000000 * Country/Region^1*Aircraft^2*Operator^1 + -0.000000748 * Country/Region^1*Aircraft^2*Sum of Ground^1 + -0.000000004 * Country/Region^1*Aircraft^2*Sum of Aboard^1 + -0.000000000 * Country/Region^1*Aircraft^1*Location^2 + 0.000000000 * Country/Region^1*Aircraft^1*Location^1*Operator^1 + -0.000000101 * Country/Region^1*Aircraft^1*Location^1*Sum of Ground^1 + 0.000000000 * Country/Region^1*Aircraft^1*Location^1*Sum of Aboard^1 + -0.000000000 * Country/Region^1*Aircraft^1*Operator^2 + 0.000000287 * Country/Region^1*Aircraft^1*Operator^1*Sum of Ground^1 + 0.000000001 * Country/Region^1*Aircraft^1*Operator^1*Sum of Aboard^1 + 0.000000675 * Country/Region^1*Aircraft^1*Sum of Ground^2 + -0.000010691 * Country/Region^1*Aircraft^1*Sum of Ground^1*Sum of Aboard^1 + 0.000000026 * Country/Region^1*Aircraft^1*Sum of Aboard^2 + 0.000000000 * Country/Region^1*Location^3 + 0.000000000 * Country/Region^1*Location^2*Operator^1 + -0.000000017 * Country/Region^1*Location^2*Sum of Ground^1 + 0.000000000 * Country/Region^1*Location^2*Sum of Aboard^1 + -0.000000000 * Country/Region^1*Location^1*Operator^2 + 0.000000051 * Country/Region^1*Location^1*Operator^1*Sum of Ground^1 + 0.000000000 * Country/Region^1*Location^1*Operator^1*Sum of Aboard^1 + -0.000006233 * Country/Region^1*Location^1*Sum of Ground^2 + -0.000001969 * Country/Region^1*Location^1*Sum of Ground^1*Sum of Aboard^1 + 0.000000001 * Country/Region^1*Location^1*Sum of Aboard^2 + 0.000000000 * Country/Region^1*Operator^3 + -0.000000074 * Country/Region^1*Operator^2*Sum of Ground^1 + -0.000000000 * Country/Region^1*Operator^2*Sum of Aboard^1 + 0.000004789 * Country/Region^1*Operator^1*Sum of Ground^2 + 0.000001175 * Country/Region^1*Operator^1*Sum of Ground^1*Sum of Aboard^1 + -0.000000005 * Country/Region^1*Operator^1*Sum of Aboard^2 + 0.000429357 * Country/Region^1*Sum of Ground^3 + -0.000284267 * Country/Region^1*Sum of Ground^2*Sum of Aboard^1 + 0.000014938 * Country/Region^1*Sum of Ground^1*Sum of Aboard^2 + -0.000000085 * Country/Region^1*Sum of Aboard^3 + -0.000000014 * Aircraft Manufacturer^4 + 0.000000011 * Aircraft Manufacturer^3*Aircraft^1 + 0.000000002 * Aircraft Manufacturer^3*Location^1 + -0.000000003 * Aircraft Manufacturer^3*Operator^1 + -0.000028016 * Aircraft Manufacturer^3*Sum of Ground^1 + -0.000000005 * Aircraft Manufacturer^3*Sum of Aboard^1 + -0.000000003 * Aircraft Manufacturer^2*Aircraft^2 + -0.000000001 * Aircraft Manufacturer^2*Aircraft^1*Location^1 + 0.000000001 * Aircraft Manufacturer^2*Aircraft^1*Operator^1 + 0.000020063 * Aircraft Manufacturer^2*Aircraft^1*Sum of Ground^1 + 0.000000010 * Aircraft Manufacturer^2*Aircraft^1*Sum of Aboard^1 + -0.000000000 * Aircraft Manufacturer^2*Location^2 + 0.000000000 * Aircraft Manufacturer^2*Location^1*Operator^1 + 0.000000905 * Aircraft Manufacturer^2*Location^1*Sum of Ground^1 + 0.000000019 * Aircraft Manufacturer^2*Location^1*Sum of Aboard^1 + 0.000000000 * Aircraft Manufacturer^2*Operator^2 + 0.000002679 * Aircraft Manufacturer^2*Operator^1*Sum of Ground^1 + 0.000000011 * Aircraft Manufacturer^2*Operator^1*Sum of Aboard^1 + -0.000408153 * Aircraft Manufacturer^2*Sum of Ground^2 + -0.000071528 * Aircraft

Manufacturer^2*Sum of Ground^1*Sum of Aboard^1 + 0.000000322 * Aircraft
Manufacturer^2*Sum of Aboard^2 + 0.000000000 * Aircraft Manufacturer^1*Aircraft^3 +
0.000000000 * Aircraft Manufacturer^1*Aircraft^2*Location^1 + -0.000000000 * Aircraft
Manufacturer^1*Aircraft^2*Operator^1 + -0.000004579 * Aircraft
Manufacturer^1*Aircraft^2*Sum of Ground^1 + -0.000000003 * Aircraft
Manufacturer^1*Aircraft^2*Sum of Aboard^1 + 0.000000000 * Aircraft
Manufacturer^1*Aircraft^1*Location^2 + 0.000000000 * Aircraft
Manufacturer^1*Aircraft^1*Location^1*Operator^1 + -0.000000216 * Aircraft
Manufacturer^1*Aircraft^1*Location^1*Sum of Ground^1 + -0.000000008 * Aircraft
Manufacturer^1*Aircraft^1*Location^1*Sum of Aboard^1 + -0.000000000 * Aircraft
Manufacturer^1*Aircraft^1*Operator^2 + -0.000000677 * Aircraft
Manufacturer^1*Aircraft^1*Operator^1*Sum of Ground^1 + -0.000000002 * Aircraft
Manufacturer^1*Aircraft^1*Operator^1*Sum of Aboard^1 + 0.000189546 * Aircraft
Manufacturer^1*Aircraft^1*Sum of Ground^2 + 0.000014260 * Aircraft
Manufacturer^1*Aircraft^1*Sum of Ground^1*Sum of Aboard^1 + -0.000000065 * Aircraft
Manufacturer^1*Aircraft^1*Sum of Aboard^2 + -0.000000000 * Aircraft
Manufacturer^1*Location^3 + -0.000000000 * Aircraft Manufacturer^1*Location^2*Operator^1
+ -0.000000143 * Aircraft Manufacturer^1*Location^2*Sum of Ground^1 + -0.000000000 *
Aircraft Manufacturer^1*Location^2*Sum of Aboard^1 + 0.000000000 * Aircraft
Manufacturer^1*Location^1*Operator^2 + 0.000000287 * Aircraft
Manufacturer^1*Location^1*Operator^1*Sum of Ground^1 + 0.000000000 * Aircraft
Manufacturer^1*Location^1*Operator^1*Sum of Aboard^1 + 0.000001741 * Aircraft
Manufacturer^1*Location^1*Sum of Ground^2 + -0.000001243 * Aircraft
Manufacturer^1*Location^1*Sum of Ground^1*Sum of Aboard^1 + 0.000000015 * Aircraft
Manufacturer^1*Location^1*Sum of Aboard^2 + 0.000000000 * Aircraft
Manufacturer^1*Operator^3 + 0.000000065 * Aircraft Manufacturer^1*Operator^2*Sum of
Ground^1 + 0.000000001 * Aircraft Manufacturer^1*Operator^2*Sum of Aboard^1 + -
0.000065195 * Aircraft Manufacturer^1*Operator^1*Sum of Ground^2 + -0.000000042 *
Aircraft Manufacturer^1*Operator^1*Sum of Ground^1*Sum of Aboard^1 + 0.000000013 *
Aircraft Manufacturer^1*Operator^1*Sum of Aboard^2 + -0.000308278 * Aircraft
Manufacturer^1*Sum of Ground^3 + 0.000124731 * Aircraft Manufacturer^1*Sum of
Ground^2*Sum of Aboard^1 + 0.000034358 * Aircraft Manufacturer^1*Sum of Ground^1*Sum
of Aboard^2 + -0.000000469 * Aircraft Manufacturer^1*Sum of Aboard^3 + -0.000000000 *
Aircraft^4 + 0.000000000 * Aircraft^3*Location^1 + -0.000000000 * Aircraft^3*Operator^1 +
0.000000325 * Aircraft^3*Sum of Ground^1 + 0.000000000 * Aircraft^3*Sum of Aboard^1 + -
0.000000000 * Aircraft^2*Location^2 + -0.000000000 * Aircraft^2*Location^1*Operator^1 +
0.000000016 * Aircraft^2*Location^1*Sum of Ground^1 + 0.000000001 *
Aircraft^2*Location^1*Sum of Aboard^1 + 0.000000000 * Aircraft^2*Operator^2 +
0.000000033 * Aircraft^2*Operator^1*Sum of Ground^1 + 0.000000000 *
Aircraft^2*Operator^1*Sum of Aboard^1 + -0.000021428 * Aircraft^2*Sum of Ground^2 + -
0.000000740 * Aircraft^2*Sum of Ground^1*Sum of Aboard^1 + 0.000000001 *
Aircraft^2*Sum of Aboard^2 + 0.000000000 * Aircraft^1*Location^3 + 0.000000000 *
Aircraft^1*Location^2*Operator^1 + 0.000000027 * Aircraft^1*Location^2*Sum of Ground^1
+ 0.000000000 * Aircraft^1*Location^2*Sum of Aboard^1 + -0.000000000 *
Aircraft^1*Location^1*Operator^2 + -0.000000045 * Aircraft^1*Location^1*Operator^1*Sum
of Ground^1 + -0.000000000 * Aircraft^1*Location^1*Operator^1*Sum of Aboard^1 + -

0.000000517 * Aircraft^1*Location^1*Sum of Ground^2 + 0.000000220 *
 Aircraft^1*Location^1*Sum of Ground^1*Sum of Aboard^1 + -0.000000001 *
 Aircraft^1*Location^1*Sum of Aboard^2 + -0.000000000 * Aircraft^1*Operator^3 + -
 0.000000008 * Aircraft^1*Operator^2*Sum of Ground^1 + -0.000000000 *
 Aircraft^1*Operator^2*Sum of Aboard^1 + 0.000011428 * Aircraft^1*Operator^1*Sum of
 Ground^2 + -0.000000171 * Aircraft^1*Operator^1*Sum of Ground^1*Sum of Aboard^1 + -
 0.000000002 * Aircraft^1*Operator^1*Sum of Aboard^2 + 0.000074448 * Aircraft^1*Sum of
 Ground^3 + -0.000022752 * Aircraft^1*Sum of Ground^2*Sum of Aboard^1 + -0.000005990 *
 Aircraft^1*Sum of Ground^1*Sum of Aboard^2 + 0.000000077 * Aircraft^1*Sum of Aboard^3
 + 0.000000000 * Location^4 + 0.000000000 * Location^3*Operator^1 + 0.000000001 *
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 * Location^2*Operator^2 + -0.000000008 * Location^2*Operator^1*Sum of Ground^1 +
 0.000000000 * Location^2*Operator^1*Sum of Aboard^1 + 0.000000376 * Location^2*Sum of
 Ground^2 + -0.000000107 * Location^2*Sum of Ground^1*Sum of Aboard^1 + -0.000000000 *
 Location^2*Sum of Aboard^2 + 0.000000000 * Location^1*Operator^3 + 0.000000004 *
 Location^1*Operator^2*Sum of Ground^1 + -0.000000000 * Location^1*Operator^2*Sum of
 Aboard^1 + -0.000000836 * Location^1*Operator^1*Sum of Ground^2 + -0.000000031 *
 Location^1*Operator^1*Sum of Ground^1*Sum of Aboard^1 + 0.000000000 *
 Location^1*Operator^1*Sum of Aboard^2 + -0.000009169 * Location^1*Sum of Ground^3 +
 0.000013687 * Location^1*Sum of Ground^2*Sum of Aboard^1 + 0.000001367 *
 Location^1*Sum of Ground^1*Sum of Aboard^2 + 0.000000001 * Location^1*Sum of
 Aboard^3 + 0.000000000 * Operator^4 + 0.000000019 * Operator^3*Sum of Ground^1 + -
 0.000000000 * Operator^3*Sum of Aboard^1 + 0.000000483 * Operator^2*Sum of Ground^2 +
 0.000000051 * Operator^2*Sum of Ground^1*Sum of Aboard^1 + -0.000000000 *
 Operator^2*Sum of Aboard^2 + 0.000020377 * Operator^1*Sum of Ground^3 + -0.000000845
 * Operator^1*Sum of Ground^2*Sum of Aboard^1 + 0.000002020 * Operator^1*Sum of
 Ground^1*Sum of Aboard^2 + -0.000000017 * Operator^1*Sum of Aboard^3 + -0.000601517 *
 Sum of Ground^4 + -0.000041766 * Sum of Ground^3*Sum of Aboard^1 + -0.000335402 *
 Sum of Ground^2*Sum of Aboard^2 + 0.000032534 * Sum of Ground^1*Sum of Aboard^3 + -
 0.000000098 * Sum of Aboard^4

Accuracy: 0.6658498907555441

LIME INTERPRETATION:



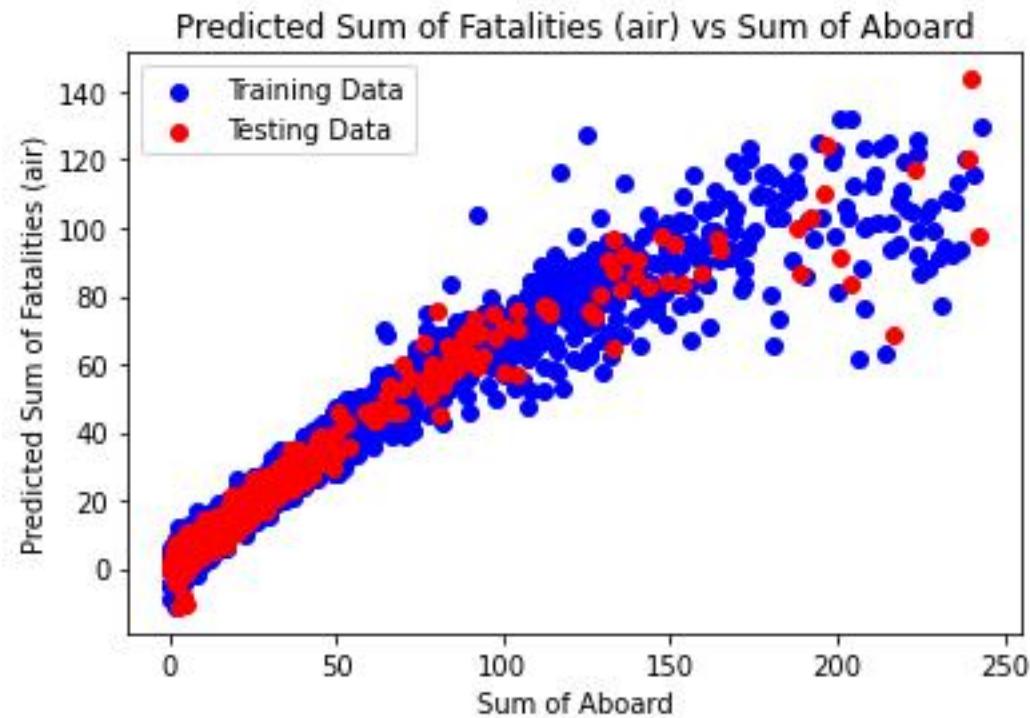
The provided spreadsheet presents the outcomes of a machine learning model tasked with predicting the probability of a fatal aircraft accident based on various features. Notably, the most influential feature is "Aircraft Manufacturer," followed by "Operator," "Sum of Aboard," "Aircraft Type," and "Location." These factors outweigh others such as "Country/Region," "Month," "Day," "Year," "Quarter," or "Sum of Ground" in terms of predictive significance.

From this dataset, several insights emerge:

- Aircraft manufacturer emerges as the primary predictor of a fatal accident, potentially indicating variations in aircraft safety across manufacturers or differences in the frequency of aircraft types in the dataset.
- The importance of the airline operator suggests variations in safety records among airlines or differences in operational environments.
- The number of passengers aboard significantly influences accident prediction, likely due to the increased potential for casualties with higher passenger counts.
- Aircraft type plays a crucial role, hinting at differing accident rates among aircraft models or variations in passenger capacity.
- The accident location's significance implies varying safety conditions across regions.

Overall, these findings underscore the multifactorial nature of fatal aircraft accidents, with aircraft manufacturer, airline operator, passenger count, aircraft type, and accident location emerging as pivotal predictors. However, it is imperative to recognize that these observations are contingent on the specific dataset analyzed and may not universally apply. Additionally,

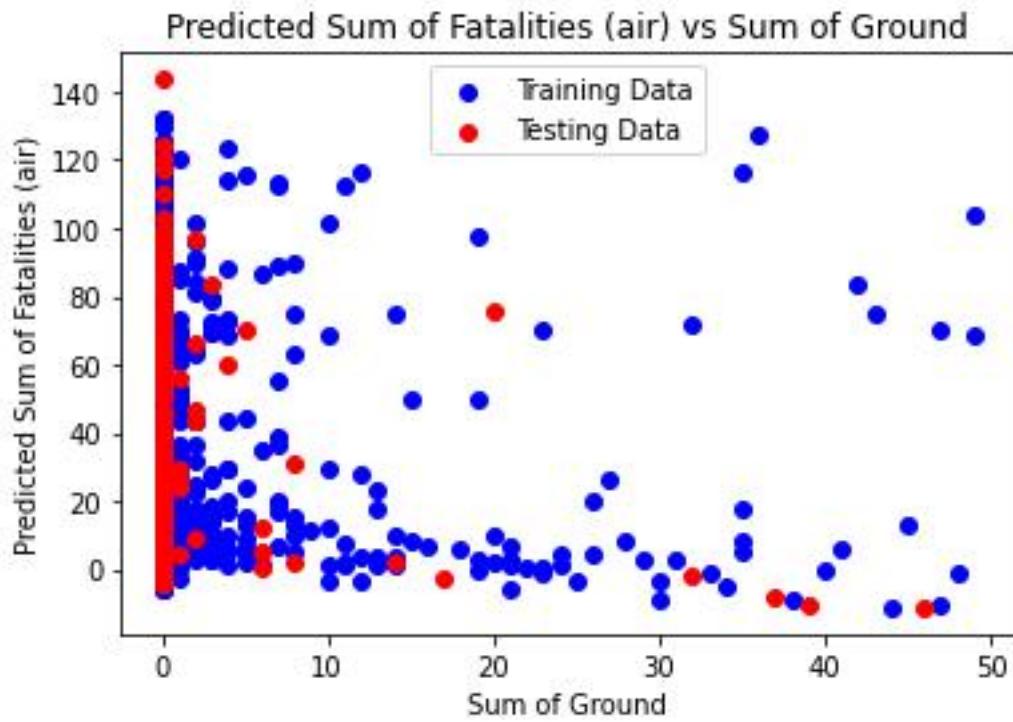
predictive importance does not equate to causation, necessitating cautious interpretation and further research.



The plot provided illustrates the outcomes of a linear regression model trained on data pertaining to aircraft accidents. The x-axis denotes the count of individuals on board the aircraft (labeled "Sum of Aboard"), while the y-axis represents the predicted count of fatalities (labeled "Predicted Sum of Fatalities (air)"). Although the equation for the plotted line is not explicitly depicted, its slope and y-intercept offer insights into the relationship between the number of individuals on board and the predicted fatalities.

The positive slope of the line indicates that the model predicts an increase in fatalities with a rise in the number of individuals on board. This observation aligns with the expectation that a higher passenger count corresponds to a higher potential for casualties in the event of an aircraft crash. Additionally, the positive y-intercept suggests that the model predicts fatalities even in scenarios with no passengers. This could imply that the model accounts for other contributing factors to aircraft accidents, such as aircraft type or weather conditions.

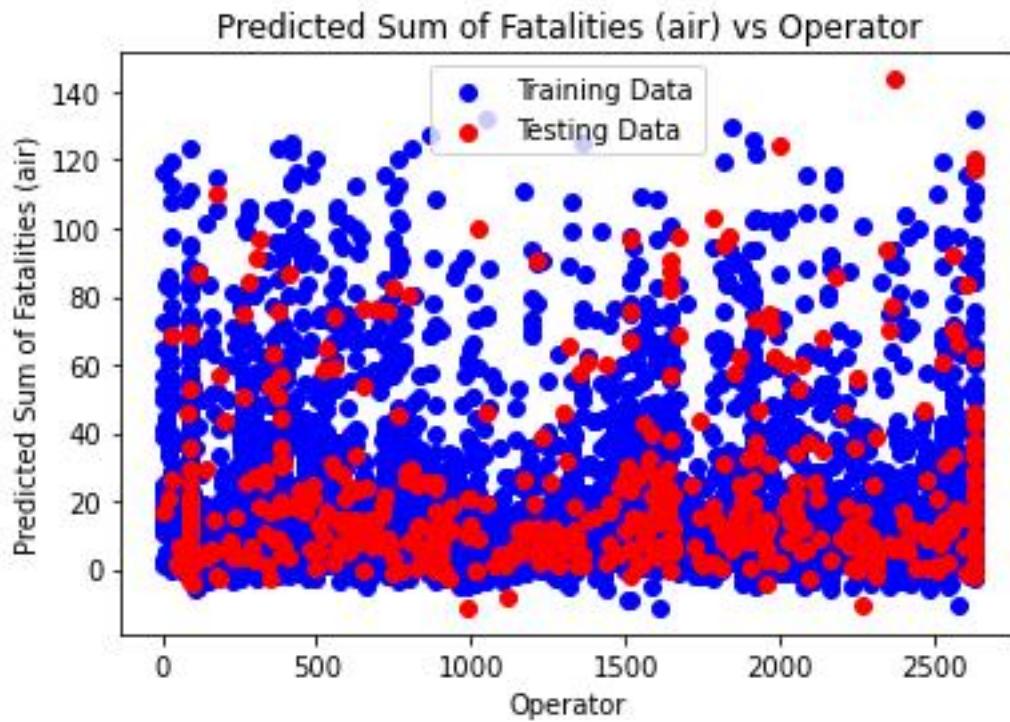
It is essential to recognize that the model's predictions are subject to inherent uncertainties and limitations, and actual outcomes may vary based on various factors. Therefore, while the model provides valuable insights, its interpretations should be approached with caution and validated through comprehensive analyses and real-world data.



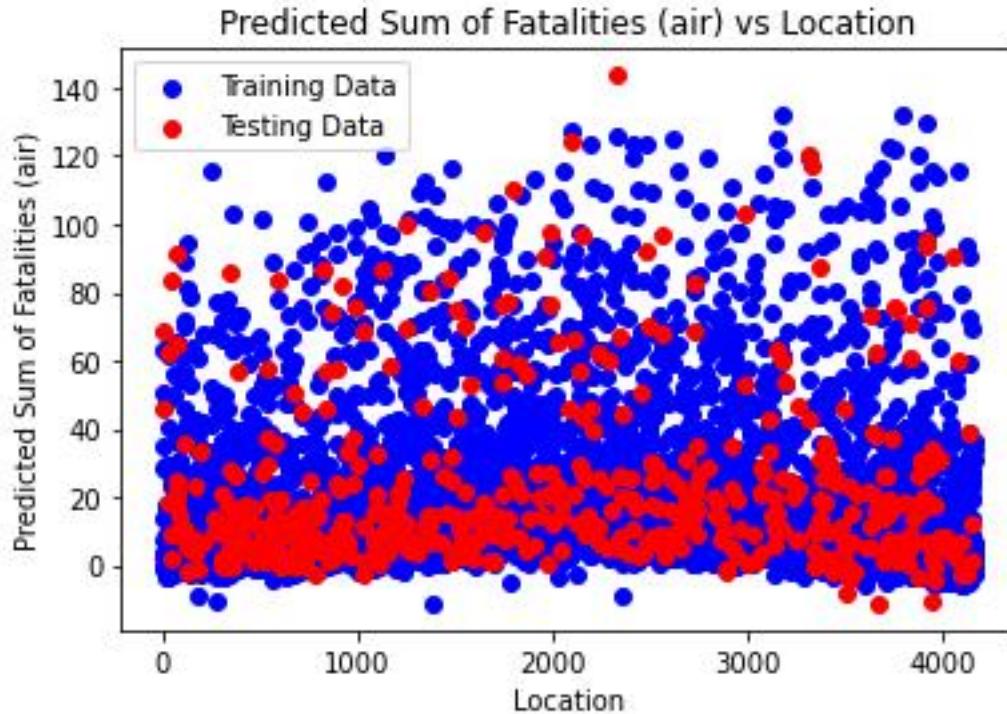
The provided scatter plot depicts the predicted sum of fatalities resulting from aircraft accidents (air) against the sum of ground fatalities. The x-axis represents the "Sum of Ground," likely indicating the predicted count of ground fatalities due to the aircraft accident, while the y-axis denotes the "Predicted Sum of Fatalities (air)," indicating the predicted count of fatalities on board the aircraft. Each data point corresponds to a single aircraft accident, where its position reflects the model's predictions for ground and aircraft fatalities.

The training data points, depicted in blue, are utilized to train the model, while the testing data points, depicted in red, assess the model's performance on unseen data. Generally, the data points align along a diagonal line, suggesting that the model predicts a proportional relationship between ground and aircraft fatalities. However, there is more dispersion observed in the testing data compared to the training data, indicating potential limitations in the model's performance on new data.

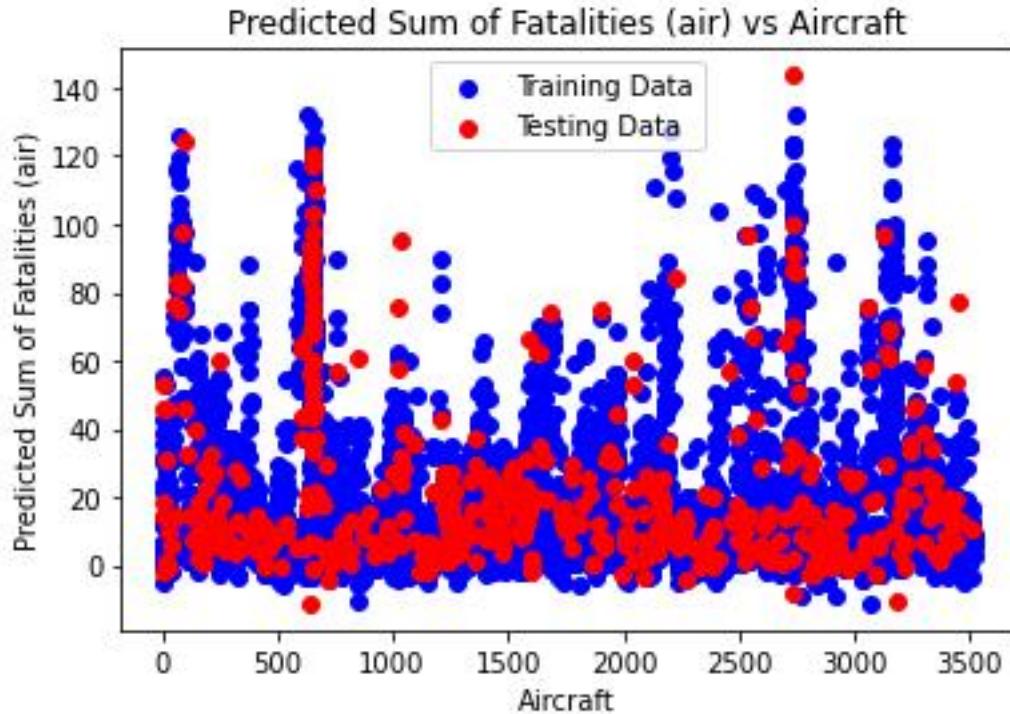
It is imperative to acknowledge that the model's predictions are subject to various influencing factors, including aircraft type, weather conditions, and accident location. Therefore, while the model offers insights into potential outcomes, real-world fatalities may differ due to the complexity and variability of aviation accidents.



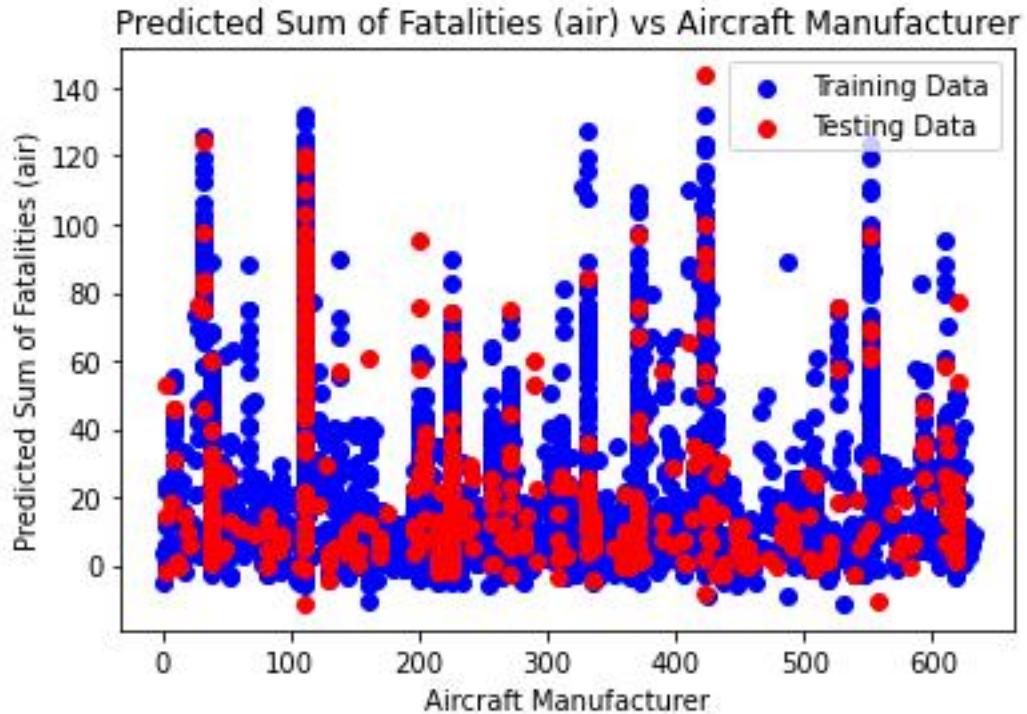
The scatter plot provided illustrates the predicted sum of fatalities (air) in relation to the operator. Upon examination, no clear linear relationship between the operator and the predicted number of fatalities is evident, with data points scattered across the plot. However, the tighter clustering of training data compared to testing data suggests potential variance in model performance. Additionally, outlier data points may influence predictions. Overall, while the model may offer some insight into predicted fatalities, it is clear that other factors beyond the operator contribute to outcomes. This analysis underscores the need for comprehensive evaluation of the model's accuracy and reliability across diverse datasets and contexts.



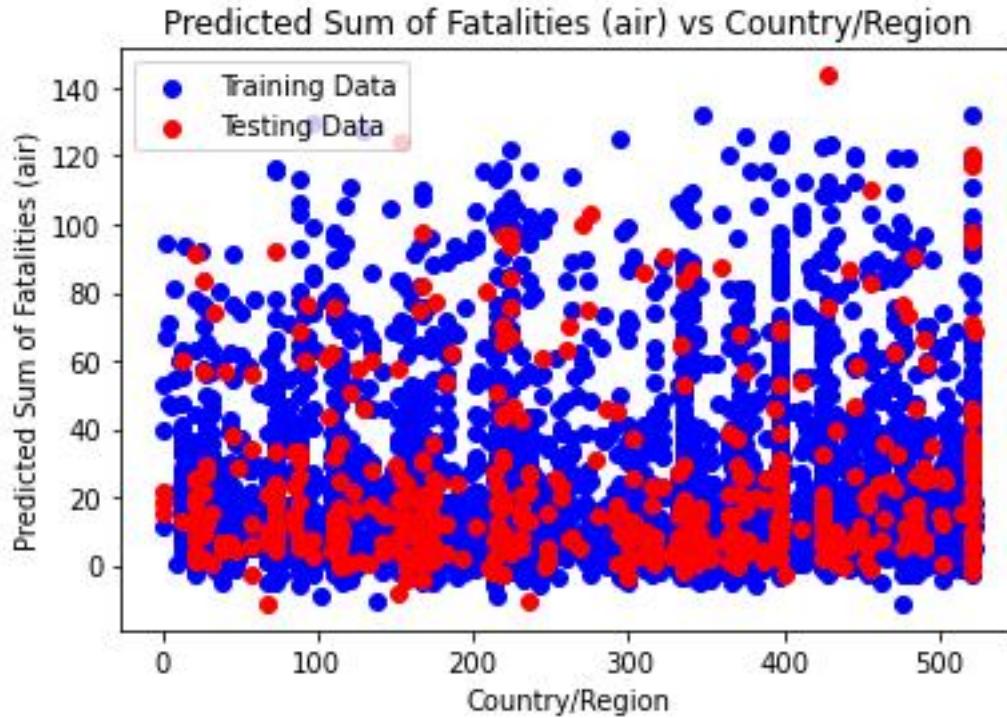
The scatter plot provided illustrates the predicted sum of fatalities (air) in relation to location. Upon examination, no discernible linear relationship between location and the predicted number of fatalities emerges, as data points are dispersed across the plot. However, a tighter clustering of training data compared to testing data suggests potential variability in model performance. Additionally, outlier data points may exert influence on predictions. Overall, while the model may offer some insight into predicted fatalities based on location, it is evident that location alone does not fully explain outcomes. This analysis underscores the necessity for comprehensive evaluation of the model's accuracy and reliability across diverse datasets and contexts.



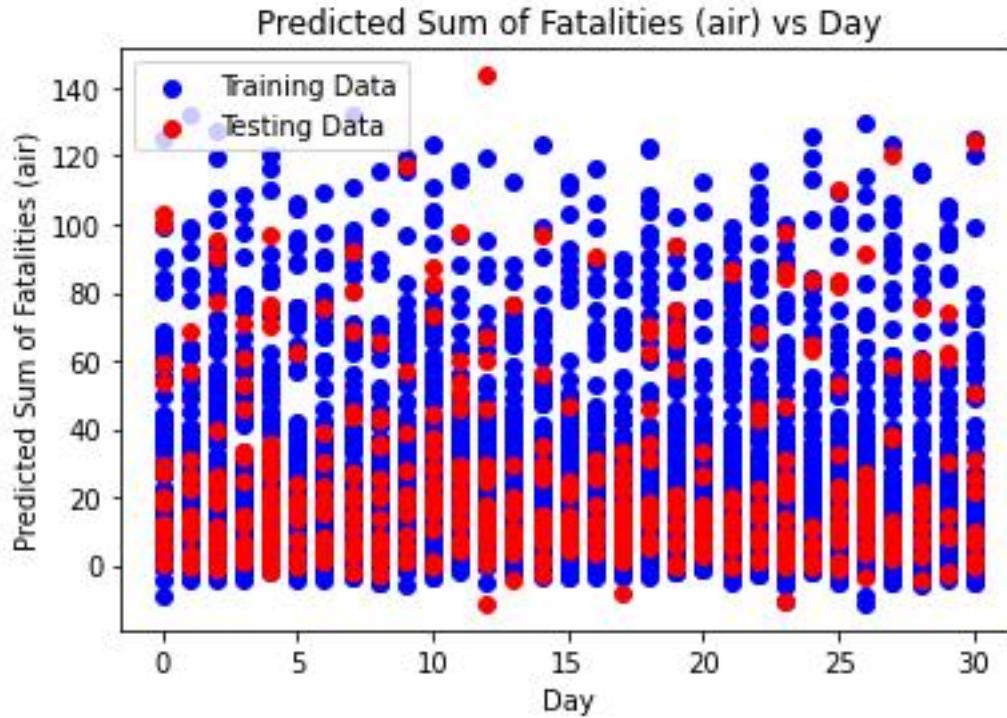
The provided graph depicts the performance of a machine learning model, likely a regression model, in predicting the number of fatalities in plane crashes based on the number of aircraft involved. The x-axis denotes the count of aircraft, while the y-axis represents the model's prediction of fatalities. The curved line illustrates the model's prediction trend, indicating an upward trajectory as the number of aircraft increases. Blue dots signify training data points used to train the model, influencing the overall curve. However, unseen testing data is not visualized. It is essential to note that while the model provides insights, actual fatalities may vary due to numerous factors such as aircraft type, weather conditions, and accident location, emphasizing the need for comprehensive evaluation and real-world validation of model predictions.



The provided visualization likely represents the performance of a machine learning regression model tasked with predicting the number of fatalities in aircraft accidents, with aircraft manufacturer as a feature. The x-axis denotes specific aircraft manufacturers, while the y-axis represents the model's prediction of fatalities. A curved line illustrates the model's average prediction trend based on the manufacturer. However, the overall trend of the curve is not distinctly discernible. Notably, the model's predictions serve as averages and may not fully capture real-world variability. Additionally, the influence of training data on the curve may outweigh that of unseen testing data. It's crucial to acknowledge that the model's predictive accuracy relies on various factors beyond aircraft manufacturer, such as aircraft type, weather conditions, and accident location.

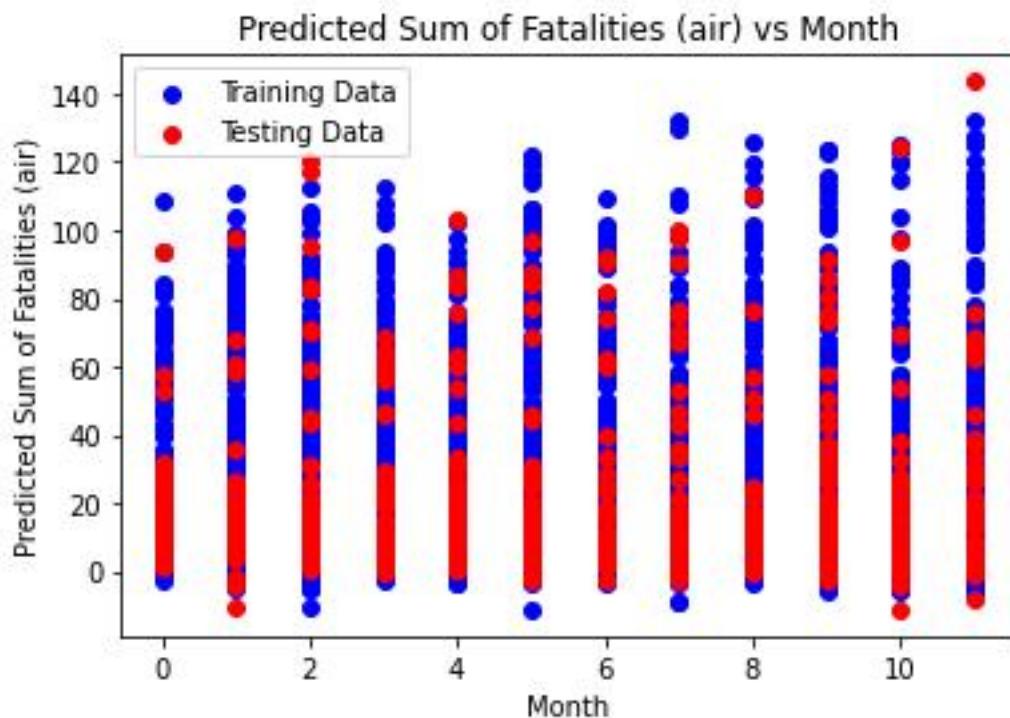


The provided plot likely portrays a visualization depicting the performance assessment of a regression model tasked with predicting the number of ground fatalities in aircraft accidents based on the count of individuals aboard. The x-axis denotes the total number of individuals aboard the aircraft, while the y-axis represents the predicted sum of fatalities. A curved line illustrates the model's average prediction trend as the count of individuals aboard varies. The upward trend of the curve suggests an increase in predicted fatalities with a higher count of individuals aboard. However, it's imperative to acknowledge that the model's predictions represent averages, and real-world outcomes may exhibit deviations. Additionally, the impartial evaluation provided by testing data aids in assessing the model's performance on unseen data. Ultimately, the model's predictive efficacy relies on various factors beyond passenger count, including aircraft type, weather conditions, and accident location.

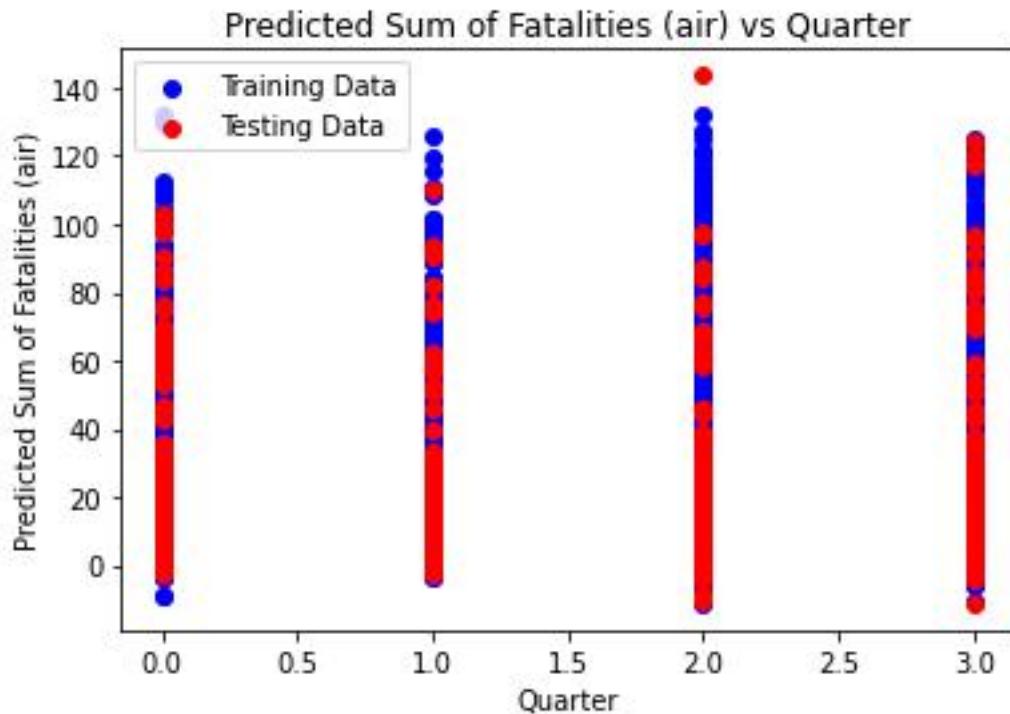


The provided image illustrates a graph depicting the performance evaluation of a linear regression model employed to predict the number of fatalities in airplane crashes based on the day of the week. Here's a breakdown of the plot: the x-axis represents the day of the week, ranging from Sunday (0) to Saturday (6), while the y-axis denotes the predicted sum of fatalities on the aircraft. A straight line illustrates the model's average prediction for fatalities corresponding to each day of the week. The trend of the line exhibits a slight upward inclination from left to right, implying a marginally higher predicted fatality count on weekends (days 5 and 6) compared to weekdays (days 0 through 4).

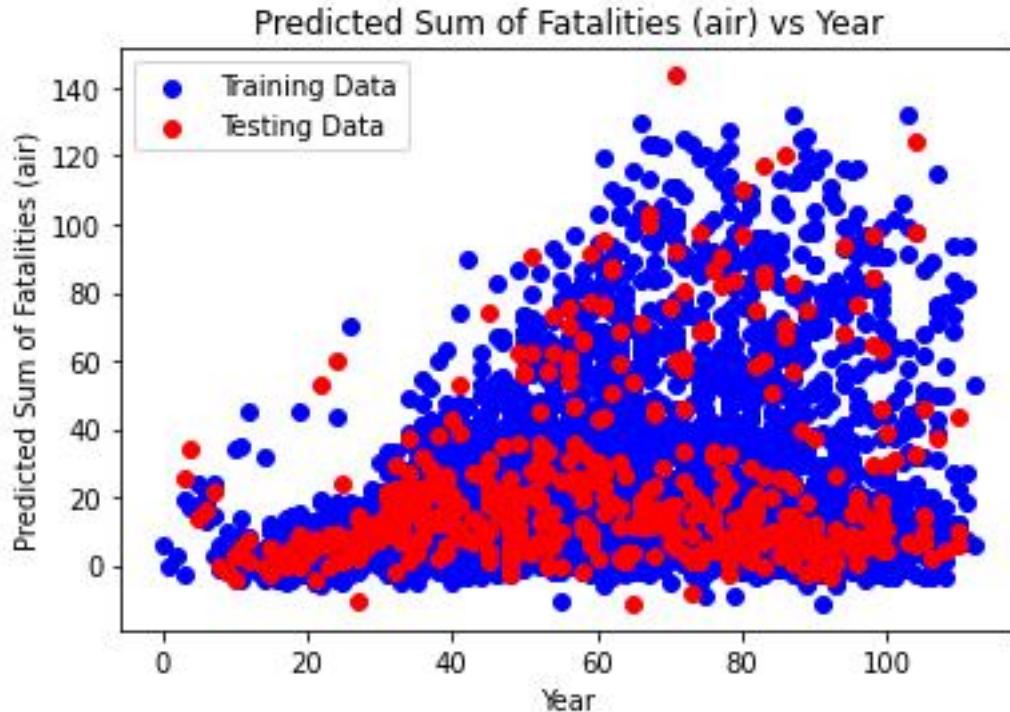
Several considerations should be noted regarding this plot: firstly, the line signifies the model's average prediction, implying potential deviations in real-world crash outcomes from the model's predictions for specific days of the week. Secondly, the influence of the training data points on shaping the line might overshadow the impact of unseen testing data. Lastly, it's essential to recognize that the model's predictive accuracy is contingent upon various factors beyond the day of the week, including aircraft type, weather conditions, and accident location. It's also pertinent to acknowledge that the model likely incorporates a multifaceted feature set, with the day of the week serving as one component.



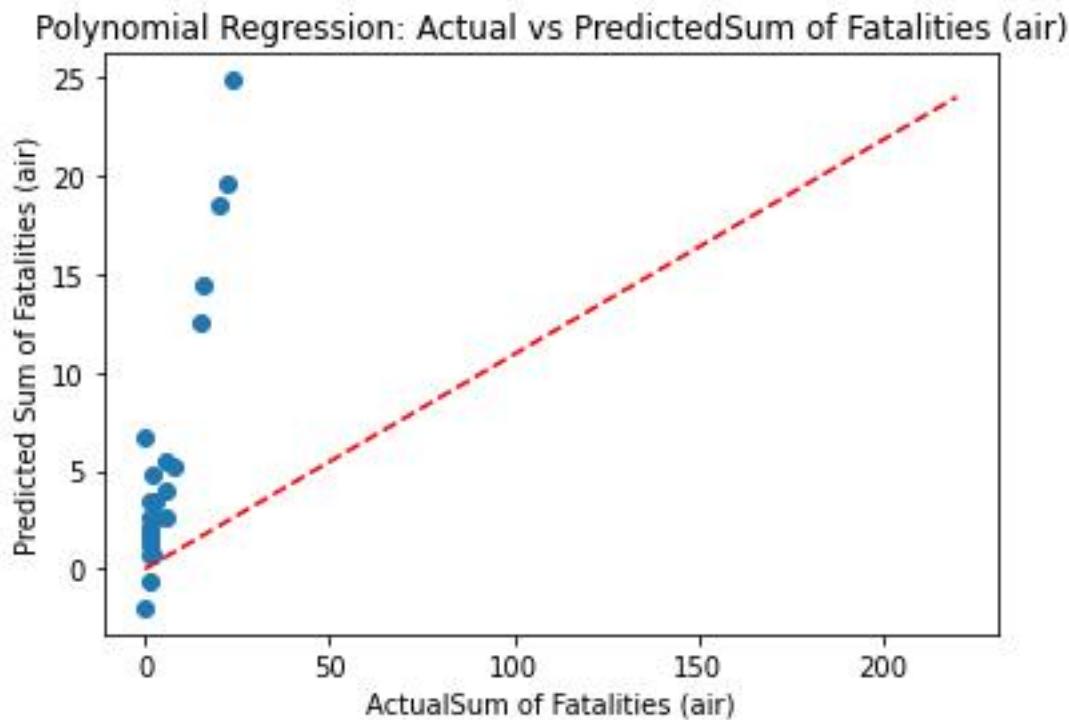
The scatter plot illustrates the forecasted number of fatalities in air accidents across various months, segregated by aircraft type. Distinct colored lines denote different aircraft classifications. Despite its informative layout, the plot's multiplicity of lines impedes clear trend identification. Further insights into the predicted fatality counts for each aircraft type can be provided upon accessing the legend information. Nonetheless, it's essential to note the plot's focus solely on predicted fatalities and the potential incorporation of additional variables in the predictive model, underlining the need for cautious interpretation of its findings in the broader context of aviation safety analysis.



The provided scatter plot delineates the projected count of fatalities in air incidents relative to the month of occurrence, categorized by aircraft manufacturer. Key observations include the differentiation between training and testing data, respectively, alongside the legend associating each colored line with a distinct manufacturer. The presence of red dots signifies training data points utilized for model calibration concerning fatalities prediction for each manufacturer. While discerning an overarching trend proves challenging across all manufacturers, certain patterns emerge, such as elevated projected fatalities during summer months for manufacturers like Bombardier and Embraer based on the training dataset. Additional considerations encompass the plot's exclusive focus on predicted, not actual, fatality counts, potential incorporation of additional predictive variables beyond month and manufacturer, and the singular nature of the dataset, prompting caution in generalizing findings. It's noteworthy that the model's predictive capacity may involve a more intricate amalgamation of features beyond solely month-based parameters.

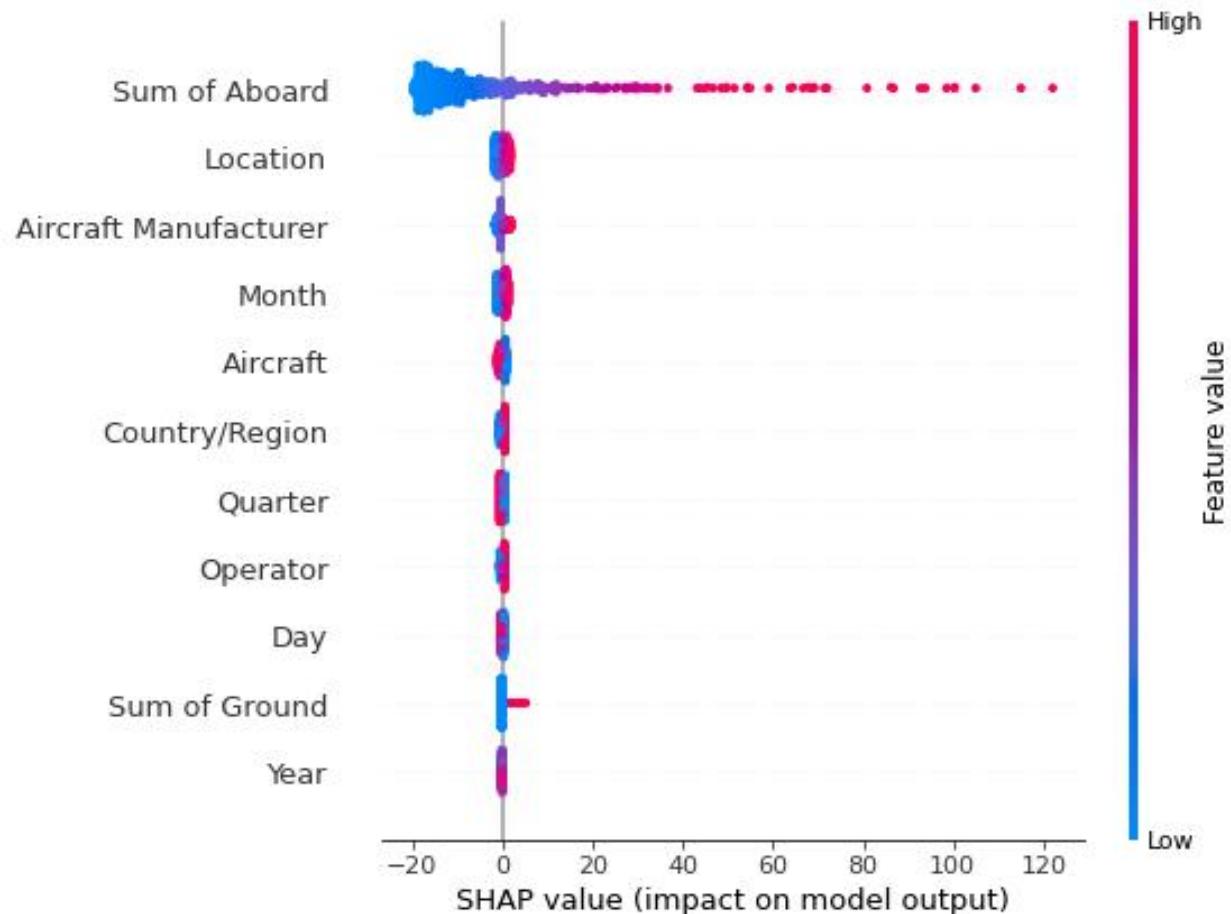


The provided scatter plot illustrates the projected number of fatalities in air accidents across years, categorized by aircraft type. The x-axis spans, representing the years, while the y-axis denotes the predicted sum of air fatalities. The legend identifies four distinct aircraft types: Turboprop, Regional Jet, Narrow body, and Wide body. Analysis of the plot reveals nuanced trends for each aircraft type: Narrow body aircraft exhibit a potential upward trend in predicted fatalities based on training data, whereas Wide body aircraft suggest a possible decline over the years. However, the presence of scattered data points in the testing dataset complicates trend discernment. Additional considerations encompass the plot's exclusive focus on predicted, not actual, fatality counts, potential inclusion of other predictive variables beyond year and aircraft type, and the singular nature of the dataset, highlighting the necessity for cautious interpretation. It's noteworthy that the model's predictive framework likely incorporates a multifaceted array of features, with year serving as one among many.



The scatter plot entitled "Polynomial Regression: Actual vs PredictedSum of Fatalities (air)" elucidates the correlation between actual fatalities and predicted fatalities concerning aircraft incidents. Key observations from the plot include the presence of blue dots representing individual data points, predominantly clustered within the lower range of both axes, typically spanning from 0 to 50 actual fatalities. The red dashed line denotes a polynomial regression model, indicating an enhanced prediction accuracy with the escalation of actual fatalities. Initially, the model tends to underestimate fatalities; however, it exhibits an amelioration in accuracy as actual fatalities increase. The x-axis delineates actual fatalities, ranging from 0 to 200, while the y-axis represents predicted fatalities, spanning from 0 to 25. It's essential to acknowledge that this interpretation provides a simplified overview, and the comprehensive analysis likely incorporates intricate factors pertinent to aircraft safety and fatalities.

SHAP-INTERPRETATION:



Functions of 'Max speed Knots'

1. Model: The model name of the aircraft.
2. Company: The company that manufactures the aircraft.
3. Engine Type: The type of engine used in the aircraft, such as Piston or Propjet.
4. HP or lbs thr ea engine: The horsepower or pounds of thrust produced by each engine.
5. Max speed Knots: The maximum speed of the aircraft in knots, which is a unit of speed used in aviation.
6. Rcmnd cruise Knots: The recommended cruising speed of the aircraft in knots for optimal performance and fuel efficiency.
7. Stall Knots dirty: The stall speed of the aircraft when the flaps and landing gear are extended (dirty configuration) in knots.
8. Fuel gal/lbs: The fuel capacity of the aircraft in gallons or pounds.
9. All eng service ceiling: The service ceiling of the aircraft with all engines operating, which is the maximum altitude at which the aircraft can maintain a specified rate of climb.
10. Eng out service ceiling: The service ceiling of the aircraft with one engine out, indicating the maximum altitude it can reach under such conditions.
11. All eng rate of climb: The rate of climb of the aircraft with all engines operating, typically measured in feet per minute.
12. Eng out rate of climb: The rate of climb of the aircraft with one engine out, showing how fast it can ascend under those circumstances.
13. Takeoff over 50ft: The distance required for the aircraft to take off and clear a 50-foot obstacle.
14. Takeoff ground run: The distance needed for the aircraft to take off from the ground.
15. Landing over 50ft: The distance required for the aircraft to land and stop after clearing a 50-foot obstacle.
16. Landing ground roll: The distance needed for the aircraft to land and come to a stop on the ground.
17. Gross weight lbs: The maximum allowable weight of the aircraft, including passengers, cargo, and fuel.

18. Empty weight lbs: The weight of the aircraft when empty, without any payload.
19. Length ft/in: The length of the aircraft in feet and inches.
20. Height ft/in: The height of the aircraft in feet and inches.
21. Wing span ft/in: The wingspan of the aircraft in feet and inches.
22. Range N.M.: The maximum range of the aircraft in nautical miles, indicating how far it can fly without refueling.

These features provide important information about the aircraft's performance, capabilities, and specifications that are crucial for navigation and flight planning.

Equation:

ENCODING ONLY CATEGORICAL VARIABLES:

Equation: Max speed Knots= -91.98098318746494328479 + 0.31934922179598962400 * Company + 14.00722803413319006438 * Engine Type + 0.05782096815829170650 * HP or lbs thr ea engine + 0.40174974340024349750 * Rcmnd cruise Knots + -0.48268308116920788375 * Stall Knots dirty + -0.00194245209793558098 * Fuel gal/lbs + 0.00190477732433421212 * All eng service ceiling + 0.01687159366939789198 * Eng out service ceiling + 0.00123304655524404260 * All eng rate of climb + -0.04555631200996640429 * Eng out rate of climb + 0.02260251319867557368 * Takeoff over 50ft + 0.00005767659490027463 * Takeoff ground run + 0.00587921188232233723 * Landing over 50ft + 0.00392223420635380484 * Landing ground roll + -0.01433204206651608921 * Gross weight lbs + 0.02024722986360515120 * Empty weight lbs + 0.14583717072352356259 * Length ft/in + -0.00200491454800367933 * Height ft/in + -0.08927479634941978826 * Wing span ft/in + 0.02134465981975075186 * Range N.M.

Accuracy: 0.780751225691352

coefficient [-8.14890308e-02 3.85329550e+00 -7.95184739e+01 -5.59902233e-01

1.88566089e+00 -4.64942646e+00 8.67839475e-03 -5.08520565e-03

-1.91816726e-01 -1.29572611e+00 9.34971929e-01 2.53602323e-01

-2.23888636e-01 -2.01789345e-01 -3.44877006e-02 1.20194056e+00

8.08667861e-02 1.04483039e+00 -3.25574338e-01 -1.63625196e+00

8.48929439e-02 6.72000333e-06 -7.89833848e-04 -3.55209379e-03

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7.92176042e-07 6.56142427e-04 2.56818343e-04 -4.54805526e-04

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-2.37992658e-02 -1.50065216e-03 2.70122994e-04 2.76924676e-03
2.40257775e-05 1.05962174e-05 8.14699510e-03 -1.45650410e-04
-4.37672253e-03 -1.69820967e-04 1.61869067e-05 -1.03265004e-04
2.27464493e-04 -5.87497509e-04 4.05594556e-04 -5.30060482e-03
-2.55969675e-03 7.15009687e-03 -1.18952443e-03 -6.92970881e-03
-2.34307638e-04 -6.64927264e-05 -2.06517201e-05 -4.21245942e-04
-3.68556043e-04 1.00596749e-03 2.33366107e-04 2.95400855e-04
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6.18500497e-03 2.10479323e-04 -2.69856606e-03 -3.76756988e-04
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6.36913454e-03 9.97409903e-03 -5.42907144e-04 1.44891246e-03
-1.52747919e-03 -3.04341168e-03 5.83789717e-03 -1.87857415e-03
-1.94345735e-02 5.78717647e-03 -1.49900364e-02 -4.90212362e-04
-1.37338685e-07 -2.78918378e-07 -5.73915464e-05 -3.00555696e-06
1.62589784e-05 3.53176101e-06 -4.31500079e-07 -2.13077737e-06
-2.14245291e-06 -3.25272754e-06 1.75149864e-06 -3.61096023e-05

7.08542027e-05 4.20138695e-05 -4.05785999e-07 -7.55541407e-09
3.10528763e-05 -7.03062652e-06 -1.59147421e-05 -2.97173403e-06
-4.12997661e-06 2.00285563e-06 3.24144241e-06 -1.47507481e-05
7.75975218e-07 4.34727911e-05 -7.88425649e-06 -4.13161157e-05
4.83081588e-06 1.92790122e-04 7.39499889e-04 -2.52119856e-03
-9.42457110e-05 4.04806065e-04 1.08757370e-04 -1.71434232e-04
-2.56484342e-04 -4.07541122e-04 -1.70404390e-03 1.36400385e-03
9.14643883e-04 1.21439733e-04 3.06125754e-05 3.21189897e-04
3.12194279e-05 8.93884618e-05 5.88897196e-05 1.10708986e-04
-8.28490355e-04 -7.74778478e-06 -1.17988354e-03 4.24796131e-05
1.54227219e-03 6.15396264e-05 1.57415513e-03 -1.19511187e-04
-4.70092194e-05 -5.53003049e-05 -1.95082593e-04 -1.06863709e-04
-5.90575638e-04 3.53281285e-03 -2.05050443e-03 2.04010944e-04
-3.54870628e-04 -2.18610383e-05 -1.03362418e-05 1.17750297e-05
2.46172551e-05 -7.61284653e-05 -1.00876790e-04 4.59475812e-04
-1.03423547e-04 -3.05111574e-05 -4.07223308e-06 4.73230331e-07
6.66456965e-05 7.99374655e-05 7.81612484e-05 -5.29162953e-05
-1.64452406e-04 -2.25203732e-04 -1.42277555e-04 1.02850082e-04
6.37983206e-06 -5.33730062e-05 1.88002042e-04 7.00456866e-05
-1.15290959e-03 6.75176971e-05 9.32762906e-04 -1.10315402e-04
-2.14360698e-05 -3.42250453e-04 4.71287660e-05 3.61741168e-04
9.18180940e-04 -7.97092405e-04 8.59245019e-05 -3.06070632e-04
1.16721878e-04 2.58602597e-03 -3.78307605e-03 -7.11708057e-04
2.56077193e-04 3.72313810e-04 -2.94459376e-04 -1.39009253e-04
4.67324349e-04 1.07397788e-04 1.18311458e-03 -5.32019840e-04
-4.47073451e-04 7.12371232e-05 6.75794172e-04 3.60655200e-03
-9.60829933e-04 4.07979147e-04 -8.38409191e-04 3.01771136e-04]

intercept 335.12947171139876

Equation: Max speed Knots= $335.12947171139876445523 + 3.85329550091576855664 *$
 $Company + -79.51847387872463457370 * Engine\ Type + -0.55990223262399174686 * HP\ or$
 $lbs\ thr\ ea\ engine + 1.88566088774909501602 * Rcmnd\ cruise\ Knots + -$
 $4.64942646174203488840 * Stall\ Knots\ dirty + 0.00867839475328589273 * Fuel\ gal/lbs + -$
 $0.00508520564880828117 * All\ eng\ service\ ceiling + -0.19181672592200135763 * Eng\ out$
 $service\ ceiling + -1.29572611342957833003 * All\ eng\ rate\ of\ climb +$
 $0.93497192935194461949 * Eng\ out\ rate\ of\ climb + 0.25360232299165463843 * Takeoff\ over$
 $50ft + -0.22388863576264153576 * Takeoff\ ground\ run + -0.20178934462511338710 *$
 $Landing\ over\ 50ft + -0.03448770064454277640 * Landing\ ground\ roll +$
 $1.20194055615850126095 * Gross\ weight\ lbs + 0.08086678606019617743 * Empty\ weight\ lbs$
 $+ 1.04483039303165980982 * Length\ ft/in + -0.32557433831696397375 * Height\ ft/in + -$
 $1.63625196483865509300 * Wing\ span\ ft/in + 0.08489294389536186647 * Range\ N.M. +$
 $0.00000672000332557765 * Model**2 + -0.00078983384846776500 *$
 $Model**1*Company**1 + -0.00355209378500949196 * Model**1*Engine\ Type**1 +$
 $0.00019378008497041022 * Model**1*HP\ or\ lbs\ thr\ ea\ engine**1 + 0.00009603110635129919$
 $* Model**1*Rcmnd\ cruise\ Knots**1 + 0.00195337452266714645 * Model**1*Stall\ Knots$
 $dirty**1 + 0.00001823340095763459 * Model**1*Fuel\ gal/lbs**1 + 0.00000079217604209703$
 $* Model**1*All\ eng\ service\ ceiling**1 + 0.00065614242669240208 * Model**1*Eng\ out$
 $service\ ceiling**1 + 0.00025681834323404429 * Model**1*All\ eng\ rate\ of\ climb**1 + -$
 $0.00045480552563553767 * Model**1*Eng\ out\ rate\ of\ climb**1 + -0.00005044898652251106$
 $* Model**1*Takeoff\ over\ 50ft**1 + -0.00003076134379553785 * Model**1*Takeoff\ ground$
 $run**1 + 0.00007611175338362308 * Model**1*Landing\ over\ 50ft**1 +$
 $0.00003383266324541445 * Model**1*Landing\ ground\ roll**1 + -0.00036300359703811402 *$
 $Model**1*Gross\ weight\ lbs**1 + -0.00002138768211212838 * Model**1*Empty\ weight$
 $lbs**1 + -0.00041029806773393296 * Model**1*Length\ ft/in**1 + -0.00007233550446542059$
 $* Model**1*Height\ ft/in**1 + 0.00027278506323334673 * Model**1*Wing\ span\ ft/in**1 +$
 $0.00008261831245209850 * Model**1*Range\ N.M.**1 + -0.03323764439388408876 *$
 $Company**2 + 0.34794496185768875041 * Company**1*Engine\ Type**1 +$
 $0.00471544012518105345 * Company**1*HP\ or\ lbs\ thr\ ea\ engine**1 +$
 $0.00267304814838163199 * Company**1*Rcmnd\ cruise\ Knots**1 + -$
 $0.05374494349977804175 * Company**1*Stall\ Knots\ dirty**1 + 0.00013729861193901086 *$
 $Company**1*Fuel\ gal/lbs**1 + -0.00008051597031955016 * Company**1*All\ eng\ service$
 $ceiling**1 + -0.00364467313622854599 * Company**1*Eng\ out\ service\ ceiling**1 + -$
 $0.00387077505342049667 * Company**1*All\ eng\ rate\ of\ climb**1 +$
 $0.00248916200307890047 * Company**1*Eng\ out\ rate\ of\ climb**1 +$
 $0.00044272167676547014 * Company**1*Takeoff\ over\ 50ft**1 + -0.00089633380772942764$
 $* Company**1*Takeoff\ ground\ run**1 + 0.00016085387259359707 * Company**1*Landing$
 $over\ 50ft**1 + 0.00022470840212513235 * Company**1*Landing\ ground\ roll**1 +$
 $0.00196804792303862611 * Company**1*Gross\ weight\ lbs**1 + -0.00243909836232604916 *$
 $Company**1*Empty\ weight\ lbs**1 + 0.01058351188041955875 * Company**1*Length$
 $ft/in**1 + -0.00268713552997210808 * Company**1*Height\ ft/in**1 +$
 $0.00407315516149947023 * Company**1*Wing\ span\ ft/in**1 + -0.00115067123597002371 *$
 $Company**1*Range\ N.M.**1 + 3.64200478538854266475 * Engine\ Type**2 +$

0.10497293800927699758 * Engine Type**1*HP or lbs thr ea engine**1 + -
0.03327129626321152778 * Engine Type**1*Rcmnd cruise Knots**1 +
0.00584525534116780900 * Engine Type**1*Stall Knots dirty**1 + -
0.00519394595214812439 * Engine Type**1*Fuel gal/lbs**1 + 0.00039991381728469652 *
Engine Type**1*All eng service ceiling**1 + -0.15647040692528815797 * Engine
Type**1*Eng out service ceiling**1 + 0.17406094103596425615 * Engine Type**1*All eng
rate of climb**1 + -0.02124326001042931358 * Engine Type**1*Eng out rate of climb**1 + -
0.01493372922776077180 * Engine Type**1*Takeoff over 50ft**1 +
0.01180459796383127695 * Engine Type**1*Takeoff ground run**1 +
0.01756459582807831654 * Engine Type**1*Landing over 50ft**1 +
0.02143766934548499425 * Engine Type**1*Landing ground roll**1 + -
0.09018221478522171763 * Engine Type**1*Gross weight lbs**1 + -
0.00337734933568220813 * Engine Type**1*Empty weight lbs**1 + -
0.20486814941182882044 * Engine Type**1*Length ft/in**1 + 0.15942809497673574026 *
Engine Type**1*Height ft/in**1 + 0.27281965230203136796 * Engine Type**1*Wing span
ft/in**1 + -0.02379926577228044099 * Engine Type**1*Range N.M.**1 + -
0.00150065215513576090 * HP or lbs thr ea engine**2 + 0.00027012299416491567 * HP or
lbs thr ea engine**1*Rcmnd cruise Knots**1 + 0.00276924676017071105 * HP or lbs thr ea
engine**1*Stall Knots dirty**1 + 0.00002402577752607521 * HP or lbs thr ea engine**1*Fuel
gal/lbs**1 + 0.00001059621744871342 * HP or lbs thr ea engine**1*All eng service ceiling**1
+ 0.00814699509504223686 * HP or lbs thr ea engine**1*Eng out service ceiling**1 + -
0.00014565040990554287 * HP or lbs thr ea engine**1*All eng rate of climb**1 + -
0.00437672252552683255 * HP or lbs thr ea engine**1*Eng out rate of climb**1 + -
0.00016982096699358525 * HP or lbs thr ea engine**1*Takeoff over 50ft**1 +
0.00001618690673779385 * HP or lbs thr ea engine**1*Takeoff ground run**1 + -
0.00010326500410619451 * HP or lbs thr ea engine**1*Landing over 50ft**1 +
0.00022746449327144596 * HP or lbs thr ea engine**1*Landing ground roll**1 + -
0.00058749750892396523 * HP or lbs thr ea engine**1*Gross weight lbs**1 +
0.00040559455627260199 * HP or lbs thr ea engine**1*Empty weight lbs**1 + -
0.00530060482493618056 * HP or lbs thr ea engine**1*Length ft/in**1 + -
0.00255969675042467312 * HP or lbs thr ea engine**1*Height ft/in**1 +
0.00715009686603278877 * HP or lbs thr ea engine**1*Wing span ft/in**1 + -
0.00118952443410211359 * HP or lbs thr ea engine**1*Range N.M.**1 + -
0.00692970880757850464 * Rcmnd cruise Knots**2 + -0.00023430763770916326 * Rcmnd
cruise Knots**1*Stall Knots dirty**1 + -0.00006649272637504131 * Rcmnd cruise
Knots**1*Fuel gal/lbs**1 + -0.00002065172006998628 * Rcmnd cruise Knots**1*All eng
service ceiling**1 + -0.00042124594175805424 * Rcmnd cruise Knots**1*Eng out service
ceiling**1 + -0.00036855604322647418 * Rcmnd cruise Knots**1*All eng rate of climb**1 +
0.00100596749040317204 * Rcmnd cruise Knots**1*Eng out rate of climb**1 +
0.00023336610660763812 * Rcmnd cruise Knots**1*Takeoff over 50ft**1 +
0.00029540085490496054 * Rcmnd cruise Knots**1*Takeoff ground run**1 +
0.00015637639700528949 * Rcmnd cruise Knots**1*Landing over 50ft**1 + -
0.00038441011353507117 * Rcmnd cruise Knots**1*Landing ground roll**1 + -

0.00206414896307626199 * Rcmnd cruise Knots**1*Gross weight lbs**1 +
0.00042026978346692916 * Rcmnd cruise Knots**1*Empty weight lbs**1 +
0.00618500496922549676 * Rcmnd cruise Knots**1*Length ft/in**1 +
0.00021047932331430931 * Rcmnd cruise Knots**1*Height ft/in**1 + -
0.00269856606208445510 * Rcmnd cruise Knots**1*Wing span ft/in**1 + -
0.00037675698828755488 * Rcmnd cruise Knots**1*Range N.M.**1 +
0.05443173165352390569 * Stall Knots dirty**2 + 0.00019781152099007486 * Stall Knots
dirty**1*Fuel gal/lbs**1 + 0.00026073097385757860 * Stall Knots dirty**1*All eng service
ceiling**1 + -0.01384419390887446297 * Stall Knots dirty**1*Eng out service ceiling**1 +
0.00636913453810368339 * Stall Knots dirty**1*All eng rate of climb**1 +
0.00997409903161593225 * Stall Knots dirty**1*Eng out rate of climb**1 + -
0.00054290714397146715 * Stall Knots dirty**1*Takeoff over 50ft**1 +
0.00144891246209322838 * Stall Knots dirty**1*Takeoff ground run**1 + -
0.00152747918838911051 * Stall Knots dirty**1*Landing over 50ft**1 + -
0.00304341168007279776 * Stall Knots dirty**1*Landing ground roll**1 +
0.00583789717066151605 * Stall Knots dirty**1*Gross weight lbs**1 + -
0.00187857415483379405 * Stall Knots dirty**1*Empty weight lbs**1 + -
0.01943457349883992435 * Stall Knots dirty**1*Length ft/in**1 + 0.00578717646717182010
* Stall Knots dirty**1*Height ft/in**1 + -0.01499003636290794673 * Stall Knots
dirty**1*Wing span ft/in**1 + -0.00049021236232764170 * Stall Knots dirty**1*Range
N.M.**1 + -0.00000013733868531318 * Fuel gal/lbs**2 + -0.00000027891837817151 * Fuel
gal/lbs**1*All eng service ceiling**1 + -0.00005739154635132915 * Fuel gal/lbs**1*Eng out
service ceiling**1 + -0.00000300555695610660 * Fuel gal/lbs**1*All eng rate of climb**1 +
0.00001625897843992793 * Fuel gal/lbs**1*Eng out rate of climb**1 +
0.00000353176100853503 * Fuel gal/lbs**1*Takeoff over 50ft**1 + -
0.00000043150007944526 * Fuel gal/lbs**1*Takeoff ground run**1 + -
0.00000213077736521683 * Fuel gal/lbs**1*Landing over 50ft**1 + -
0.00000214245290997006 * Fuel gal/lbs**1*Landing ground roll**1 + -
0.00000325272754066186 * Fuel gal/lbs**1*Gross weight lbs**1 + 0.00000175149864385660
* Fuel gal/lbs**1*Empty weight lbs**1 + -0.00003610960232273280 * Fuel gal/lbs**1*Length
ft/in**1 + 0.00007085420266871728 * Fuel gal/lbs**1*Height ft/in**1 +
0.00004201386950326153 * Fuel gal/lbs**1*Wing span ft/in**1 + -0.00000040578599885474
* Fuel gal/lbs**1*Range N.M.**1 + -0.00000000755541407216 * All eng service ceiling**2 +
0.00003105287630392195 * All eng service ceiling**1*Eng out service ceiling**1 + -
0.00000703062651884190 * All eng service ceiling**1*All eng rate of climb**1 + -
0.00001591474209483579 * All eng service ceiling**1*Eng out rate of climb**1 + -
0.00000297173403218665 * All eng service ceiling**1*Takeoff over 50ft**1 + -
0.00000412997661491943 * All eng service ceiling**1*Takeoff ground run**1 +
0.00000200285562890201 * All eng service ceiling**1*Landing over 50ft**1 +
0.00000324144240548829 * All eng service ceiling**1*Landing ground roll**1 + -
0.00001475074812962163 * All eng service ceiling**1*Gross weight lbs**1 +
0.00000077597521759565 * All eng service ceiling**1*Empty weight lbs**1 +
0.00004347279109223612 * All eng service ceiling**1*Length ft/in**1 + -

0.00000788425648790003 * All eng service ceiling**1*Height ft/in**1 + -
0.00004131611572144589 * All eng service ceiling**1*Wing span ft/in**1 +
0.00000483081587976386 * All eng service ceiling**1*Range N.M.**1 +
0.00019279012172634025 * Eng out service ceiling**2 + 0.00073949988889739342 * Eng out
service ceiling**1*All eng rate of climb**1 + -0.00252119855641331353 * Eng out service
ceiling**1*Eng out rate of climb**1 + -0.00009424571096744785 * Eng out service
ceiling**1*Takeoff over 50ft**1 + 0.00040480606477517889 * Eng out service
ceiling**1*Takeoff ground run**1 + 0.00010875737012512338 * Eng out service
ceiling**1*Landing over 50ft**1 + -0.00017143423180251451 * Eng out service
ceiling**1*Landing ground roll**1 + -0.00025648434159422639 * Eng out service
ceiling**1*Gross weight lbs**1 + -0.00040754112220404287 * Eng out service
ceiling**1*Empty weight lbs**1 + -0.00170404389639070919 * Eng out service
ceiling**1*Length ft/in**1 + 0.00136400384972352388 * Eng out service ceiling**1*Height
ft/in**1 + 0.00091464388272666014 * Eng out service ceiling**1*Wing span ft/in**1 +
0.00012143973262197186 * Eng out service ceiling**1*Range N.M.**1 +
0.00003061257541628858 * All eng rate of climb**2 + 0.00032118989680787443 * All eng
rate of climb**1*Eng out rate of climb**1 + 0.00003121942788585769 * All eng rate of
climb**1*Takeoff over 50ft**1 + 0.00008938846179989274 * All eng rate of
climb**1*Takeoff ground run**1 + 0.00005888971959099737 * All eng rate of
climb**1*Landing over 50ft**1 + 0.00011070898578672064 * All eng rate of
climb**1*Landing ground roll**1 + -0.00082849035542877959 * All eng rate of
climb**1*Gross weight lbs**1 + -0.00000774778478489398 * All eng rate of climb**1*Empty
weight lbs**1 + -0.00117988353891782406 * All eng rate of climb**1*Length ft/in**1 +
0.00004247961310121194 * All eng rate of climb**1*Height ft/in**1 +
0.00154227219084096361 * All eng rate of climb**1*Wing span ft/in**1 +
0.00006153962636760643 * All eng rate of climb**1*Range N.M.**1 +
0.00157415513065288569 * Eng out rate of climb**2 + -0.00011951118663200156 * Eng out
rate of climb**1*Takeoff over 50ft**1 + -0.00004700921937315222 * Eng out rate of
climb**1*Takeoff ground run**1 + -0.00005530030491526956 * Eng out rate of
climb**1*Landing over 50ft**1 + -0.00019508259330974775 * Eng out rate of
climb**1*Landing ground roll**1 + -0.00010686370910980604 * Eng out rate of
climb**1*Gross weight lbs**1 + -0.00059057563808366173 * Eng out rate of climb**1*Empty
weight lbs**1 + 0.00353281285041581565 * Eng out rate of climb**1*Length ft/in**1 + -
0.00205050442760468243 * Eng out rate of climb**1*Height ft/in**1 +
0.00020401094382311614 * Eng out rate of climb**1*Wing span ft/in**1 + -
0.00035487062831453774 * Eng out rate of climb**1*Range N.M.**1 + -
0.00002186103827517272 * Takeoff over 50ft**2 + -0.00001033624181553949 * Takeoff over
50ft**1*Takeoff ground run**1 + 0.00001177502971050348 * Takeoff over 50ft**1*Landing
over 50ft**1 + 0.00002461725509669832 * Takeoff over 50ft**1*Landing ground roll**1 + -
0.00007612846528054495 * Takeoff over 50ft**1*Gross weight lbs**1 + -
0.00010087679011755793 * Takeoff over 50ft**1*Empty weight lbs**1 +
0.00045947581152602432 * Takeoff over 50ft**1*Length ft/in**1 + -
0.00010342354657677782 * Takeoff over 50ft**1*Height ft/in**1 + -

0.00003051115740299384 * Takeoff over 50ft**1*Wing span ft/in**1 + -
 0.00000407223307828664 * Takeoff over 50ft**1*Range N.M.**1 +
 0.0000047323033136593 * Takeoff ground run**2 + 0.00006664569647858720 * Takeoff
 ground run**1*Landing over 50ft**1 + 0.00007993746553691672 * Takeoff ground
 run**1*Landing ground roll**1 + 0.00007816124835625937 * Takeoff ground run**1*Gross
 weight lbs**1 + -0.00005291629531495312 * Takeoff ground run**1*Empty weight lbs**1 + -
 0.00016445240632731450 * Takeoff ground run**1*Length ft/in**1 + -
 0.00022520373163812529 * Takeoff ground run**1*Height ft/in**1 + -
 0.00014227755471769854 * Takeoff ground run**1*Wing span ft/in**1 +
 0.00010285008186090849 * Takeoff ground run**1*Range N.M.**1 +
 0.0000637983205942216 * Landing over 50ft**2 + -0.00005337300620354701 * Landing over
 50ft**1*Landing ground roll**1 + 0.00018800204234498130 * Landing over 50ft**1*Gross
 weight lbs**1 + 0.00007004568655567117 * Landing over 50ft**1*Empty weight lbs**1 + -
 0.00115290959007609967 * Landing over 50ft**1*Length ft/in**1 +
 0.00006751769709444511 * Landing over 50ft**1*Height ft/in**1 + 0.00093276290591056549
 * Landing over 50ft**1*Wing span ft/in**1 + -0.00011031540153848274 * Landing over
 50ft**1*Range N.M.**1 + -0.00002143606980227475 * Landing ground roll**2 + -
 0.00034225045327138798 * Landing ground roll**1*Gross weight lbs**1 +
 0.00004712876595981685 * Landing ground roll**1*Empty weight lbs**1 +
 0.00036174116788959682 * Landing ground roll**1*Length ft/in**1 +
 0.00091818094047170333 * Landing ground roll**1*Height ft/in**1 + -
 0.00079709240480534821 * Landing ground roll**1*Wing span ft/in**1 +
 0.00008592450191378248 * Landing ground roll**1*Range N.M.**1 + -
 0.00030607063243428233 * Gross weight lbs**2 + 0.00011672187772231168 * Gross weight
 lbs**1*Empty weight lbs**1 + 0.00258602597046218678 * Gross weight lbs**1*Length
 ft/in**1 + -0.00378307605015388172 * Gross weight lbs**1*Height ft/in**1 + -
 0.00071170805706013800 * Gross weight lbs**1*Wing span ft/in**1 +
 0.00025607719317602765 * Gross weight lbs**1*Range N.M.**1 + 0.00037231380958222676
 * Empty weight lbs**2 + -0.00029445937596693506 * Empty weight lbs**1*Length ft/in**1 +
 -0.00013900925329500113 * Empty weight lbs**1*Height ft/in**1 +
 0.00046732434880462394 * Empty weight lbs**1*Wing span ft/in**1 +
 0.00010739778778830894 * Empty weight lbs**1*Range N.M.**1 +
 0.00118311458130092913 * Length ft/in**2 + -0.00053201984005332454 * Length
 ft/in**1*Height ft/in**1 + -0.00044707345111079898 * Length ft/in**1*Wing span ft/in**1 +
 0.00007123712321249927 * Length ft/in**1*Range N.M.**1 + 0.00067579417244660600 *
 Height ft/in**2 + 0.00360655199769190690 * Height ft/in**1*Wing span ft/in**1 + -
 0.00096082993286176165 * Height ft/in**1*Range N.M.**1 + 0.00040797914722673096 *
 Wing span ft/in**2 + -0.00083840919129235525 * Wing span ft/in**1*Range N.M.**1 +
 0.00030177113596661226 * Range N.M.**2

Accuracy: 0.6998414029381653

ENCODING EVERY VARIABLE:

coefficient [1.19618519e-01 8.57630079e-01 -1.35735667e+02 1.10160932e+00
4.40443641e-01 -4.33887814e+00 1.95910228e+00 -5.07824602e+00
-1.24957985e-01 -6.06068876e-01 -2.27628305e-01 4.12841209e-01
1.33207657e+00 -1.16729510e+00 4.83085340e-01 8.40058759e-01
-3.02121579e-01 1.40361244e+00 1.87410388e+00 -1.40567523e+00
-2.71188087e-01 4.85560686e-05 -5.10968485e-04 -1.87574490e-02
8.13191594e-04 7.32735634e-05 -1.44177625e-03 -3.71525670e-04
1.37215467e-05 1.17102926e-04 1.03561829e-04 -2.46608806e-04
-2.75598020e-04 -1.00057945e-04 3.49451059e-05 6.26225140e-04
4.66699731e-06 -1.40946863e-05 -5.44787439e-04 -3.58740196e-04
1.09334215e-03 -1.18993876e-05 7.80285696e-03 1.82340257e-01
-3.09806123e-03 8.32282696e-03 -5.68663425e-02 -6.83343208e-03
-5.67494296e-03 -4.51738746e-03 -2.59995122e-03 2.78397257e-03
2.56088781e-03 9.47550844e-04 4.00183186e-03 -1.03596918e-02
-1.79938801e-03 -2.92588088e-03 3.48533291e-02 5.28816915e-03
-5.88598869e-03 -2.94665521e-03 7.04174224e+00 7.34134248e-02
1.23976838e-01 8.91905553e-02 -1.77333070e-01 7.47436643e-01
1.95206641e-02 1.87379524e-02 1.31282749e-02 3.26593904e-02
-2.19797554e-01 1.63945469e-01 -1.73870401e-02 3.87957080e-02
-1.65228549e-03 -2.72022647e-01 -2.10594568e-01 2.36117411e-01
2.98232838e-03 -4.09970378e-03 -9.08038934e-04 -6.51491959e-03
-3.05091445e-03 -3.07820762e-03 1.55250096e-03 -2.82632832e-04

-3.93471543e-03 -4.67620267e-03 3.24038690e-03 2.42830465e-03
-1.79042738e-03 -5.00814584e-05 7.09200678e-04 -1.47164424e-02
8.39043893e-04 2.61137111e-02 -2.06196557e-03 -4.03726150e-03
-2.35830495e-03 2.17413659e-03 -3.11894676e-03 2.51195609e-03
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1.31599902e-03 -1.37163607e-03 8.67413969e-05 3.74965492e-04
1.68658483e-03 -1.87982095e-03 -3.42400058e-03 -7.33717114e-04
1.23423239e-02 1.86414341e-02 1.39348883e-02 9.57948313e-03
1.81244034e-03 1.07574950e-02 -1.28801657e-02 1.33555614e-02
8.77537887e-03 -8.98817739e-03 5.12502924e-03 -6.70255557e-05
-8.46539350e-03 -5.93318776e-03 -1.65154669e-02 -8.08667381e-04
-1.09978705e-03 -3.33731877e-03 -5.97491999e-03 -1.24232193e-03
4.86778882e-03 -3.54359859e-03 -4.62296556e-04 -1.11462958e-03
6.25779902e-03 3.21505845e-03 -1.93097035e-03 -4.17801882e-03
-5.75339280e-03 3.42886178e-03 1.81461278e-03 3.94296335e-03
-4.55807805e-03 7.74771197e-06 6.78105064e-03 -2.14006999e-03
7.57244190e-04 2.20369751e-03 -4.35444844e-03 1.44847562e-03
7.40328773e-04 2.15583000e-03 4.89304360e-04 -3.50548617e-03
1.23164461e-03 1.25114416e-03 3.38165656e-03 -2.37812924e-03
5.03009122e-04 -1.38526035e-03 1.44324886e-03 -1.98020277e-03
-1.10707132e-04 -1.06149391e-03 1.02190856e-03 -1.52442052e-03
5.99766956e-03 3.86141236e-04 5.70302411e-05 -1.36493802e-03
-7.29427306e-04 7.17847333e-04 1.07887604e-03 -2.71206263e-04

-4.06424517e-04 6.40125981e-04 -1.34767209e-03 -7.66776976e-04
 1.88576363e-03 5.32562554e-04 1.98289187e-04 2.96270585e-04
 -9.63845449e-05 -5.45153202e-03 3.50733949e-03 4.47459774e-04
 3.10371035e-04 -2.67499185e-03 2.02461817e-05 -3.99534303e-03
 1.04624379e-04 -2.40526869e-04 3.90717659e-05 1.01895632e-03
 7.66448272e-05 -5.11321361e-04 4.41610276e-06 6.19433959e-03
 -1.08689948e-03 4.48431919e-04 3.40245786e-04 -1.72859291e-03
 7.50003001e-04 -4.84521631e-05 -1.99512445e-03 -9.44505209e-04
 -1.81245373e-03 -8.96903881e-04 3.71842675e-03 1.41715704e-04
 2.07472413e-04 -1.25860731e-03 1.74400313e-03 1.93858166e-04
 -8.35011728e-03 3.61112356e-03 4.93524038e-04 -7.20125974e-04
 1.14527249e-03 1.95032525e-04 5.03160253e-04 4.52131652e-04
 -1.72554801e-03 -2.00730568e-03 4.02667086e-04 -4.32625855e-03
 -4.16857932e-06 -2.40337250e-03 -5.68273392e-04 -4.67284314e-04
 9.41095460e-04 4.65842529e-04 1.14102021e-03 -3.87290176e-04
 -9.78877354e-05 3.15635600e-04 1.16077428e-02 6.16123485e-03
 -1.11856987e-02 -1.76931479e-03 6.97714570e-04 -3.69437136e-03
 -6.71072439e-04 8.27317202e-05 -7.82654474e-06 2.44235253e-04]

intercept 534.5520756771917

Equation: Max speed Knots= 534.552075677 + 0.857630079 * Company + -135.735666661 * Engine Type + 1.101609319 * HP or lbs thr ea engine + 0.440443641 * Rcmnd cruise Knots + -4.338878140 * Stall Knots dirty + 1.959102277 * Fuel gal/lbs + -5.078246023 * All eng service ceiling + -0.124957985 * Eng out service ceiling + -0.606068876 * All eng rate of climb + -0.227628305 * Eng out rate of climb + 0.412841209 * Takeoff over 50ft + 1.332076571 * Takeoff ground run + -1.167295097 * Landing over 50ft + 0.483085340 * Landing ground roll + 0.840058759 * Gross weight lbs + -0.302121579 * Empty weight lbs + 1.403612443 * Length ft/in + 1.874103881 * Height ft/in + -1.405675233 * Wing span ft/in + -0.271188087 * Range

N.M. + 0.000048556 * Model^2 + -0.000510968 * Model^1*Company^1 + -0.018757449 *
 Model^1*Engine Type^1 + 0.000813192 * Model^1*HP or lbs thr ea engine^1 + 0.000073274 *
 Model^1*Rcmnd cruise Knots^1 + -0.001441776 * Model^1*Stall Knots dirty^1 + -
 0.000371526 * Model^1*Fuel gal/lbs^1 + 0.000013722 * Model^1*All eng service ceiling^1 +
 0.000117103 * Model^1*Eng out service ceiling^1 + 0.000103562 * Model^1*All eng rate of
 climb^1 + -0.000246609 * Model^1*Eng out rate of climb^1 + -0.000275598 *
 Model^1*Takeoff over 50ft^1 + -0.000100058 * Model^1*Takeoff ground run^1 + 0.000034945
 * Model^1*Landing over 50ft^1 + 0.000626225 * Model^1*Landing ground roll^1 +
 0.000004667 * Model^1*Gross weight lbs^1 + -0.000014095 * Model^1*Empty weight lbs^1 +
 -0.000544787 * Model^1*Length ft/in^1 + -0.000358740 * Model^1*Height ft/in^1 +
 0.001093342 * Model^1*Wing span ft/in^1 + -0.000011899 * Model^1*Range N.M.^1 +
 0.007802857 * Company^2 + 0.182340257 * Company^1*Engine Type^1 + -0.003098061 *
 Company^1*HP or lbs thr ea engine^1 + 0.008322827 * Company^1*Rcmnd cruise Knots^1 + -
 0.056866343 * Company^1*Stall Knots dirty^1 + -0.006833432 * Company^1*Fuel gal/lbs^1 +
 -0.005674943 * Company^1*All eng service ceiling^1 + -0.004517387 * Company^1*Eng out
 service ceiling^1 + -0.002599951 * Company^1*All eng rate of climb^1 + 0.002783973 *
 Company^1*Eng out rate of climb^1 + 0.002560888 * Company^1*Takeoff over 50ft^1 +
 0.000947551 * Company^1*Takeoff ground run^1 + 0.004001832 * Company^1*Landing over
 50ft^1 + -0.010359692 * Company^1*Landing ground roll^1 + -0.001799388 *
 Company^1*Gross weight lbs^1 + -0.002925881 * Company^1*Empty weight lbs^1 +
 0.034853329 * Company^1*Length ft/in^1 + 0.005288169 * Company^1*Height ft/in^1 + -
 0.005885989 * Company^1*Wing span ft/in^1 + -0.002946655 * Company^1*Range N.M.^1 +
 7.041742240 * Engine Type^2 + 0.073413425 * Engine Type^1*HP or lbs thr ea engine^1 +
 0.123976838 * Engine Type^1*Rcmnd cruise Knots^1 + 0.089190555 * Engine Type^1*Stall
 Knots dirty^1 + -0.177333070 * Engine Type^1*Fuel gal/lbs^1 + 0.747436643 * Engine
 Type^1*All eng service ceiling^1 + 0.019520664 * Engine Type^1*Eng out service ceiling^1 +
 0.018737952 * Engine Type^1*All eng rate of climb^1 + 0.013128275 * Engine Type^1*Eng
 out rate of climb^1 + 0.032659390 * Engine Type^1*Takeoff over 50ft^1 + -0.219797554 *
 Engine Type^1*Takeoff ground run^1 + 0.163945469 * Engine Type^1*Landing over 50ft^1 + -
 0.017387040 * Engine Type^1*Landing ground roll^1 + 0.038795708 * Engine Type^1*Gross
 weight lbs^1 + -0.001652285 * Engine Type^1*Empty weight lbs^1 + -0.272022647 * Engine
 Type^1*Length ft/in^1 + -0.210594568 * Engine Type^1*Height ft/in^1 + 0.236117411 *
 Engine Type^1*Wing span ft/in^1 + 0.002982328 * Engine Type^1*Range N.M.^1 + -
 0.004099704 * HP or lbs thr ea engine^2 + -0.000908039 * HP or lbs thr ea engine^1*Rcmnd
 cruise Knots^1 + -0.006514920 * HP or lbs thr ea engine^1*Stall Knots dirty^1 + -0.003050914
 * HP or lbs thr ea engine^1*Fuel gal/lbs^1 + -0.003078208 * HP or lbs thr ea engine^1*All eng
 service ceiling^1 + 0.001552501 * HP or lbs thr ea engine^1*Eng out service ceiling^1 + -
 0.000282633 * HP or lbs thr ea engine^1*All eng rate of climb^1 + -0.003934715 * HP or lbs thr
 ea engine^1*Eng out rate of climb^1 + -0.004676203 * HP or lbs thr ea engine^1*Takeoff over
 50ft^1 + 0.003240387 * HP or lbs thr ea engine^1*Takeoff ground run^1 + 0.002428305 * HP
 or lbs thr ea engine^1*Landing over 50ft^1 + -0.001790427 * HP or lbs thr ea engine^1*Landing
 ground roll^1 + -0.000050081 * HP or lbs thr ea engine^1*Gross weight lbs^1 + 0.000709201 *
 HP or lbs thr ea engine^1*Empty weight lbs^1 + -0.014716442 * HP or lbs thr ea
 engine^1*Length ft/in^1 + 0.000839044 * HP or lbs thr ea engine^1*Height ft/in^1 +
 0.026113711 * HP or lbs thr ea engine^1*Wing span ft/in^1 + -0.002061966 * HP or lbs thr ea
 engine^1*Range N.M.^1 + -0.004037262 * Rcmnd cruise Knots^2 + -0.002358305 * Rcmnd

cruise Knots^1*Stall Knots dirty^1 + 0.002174137 * Rcmnd cruise Knots^1*Fuel gal/lbs^1 + -0.003118947 * Rcmnd cruise Knots^1*All eng service ceiling^1 + 0.002511956 * Rcmnd cruise Knots^1*Eng out service ceiling^1 + -0.000205930 * Rcmnd cruise Knots^1*All eng rate of climb^1 + -0.001484944 * Rcmnd cruise Knots^1*Eng out rate of climb^1 + 0.001570539 * Rcmnd cruise Knots^1*Takeoff over 50ft^1 + 0.002174501 * Rcmnd cruise Knots^1*Takeoff ground run^1 + 0.001315999 * Rcmnd cruise Knots^1*Landing over 50ft^1 + -0.001371636 * Rcmnd cruise Knots^1*Landing ground roll^1 + 0.000086741 * Rcmnd cruise Knots^1*Gross weight lbs^1 + 0.000374965 * Rcmnd cruise Knots^1*Empty weight lbs^1 + 0.001686585 * Rcmnd cruise Knots^1*Length ft/in^1 + -0.001879821 * Rcmnd cruise Knots^1*Height ft/in^1 + -0.003424001 * Rcmnd cruise Knots^1*Wing span ft/in^1 + -0.000733717 * Rcmnd cruise Knots^1*Range N.M.^1 + 0.012342324 * Stall Knots dirty^2 + 0.018641434 * Stall Knots dirty^1*Fuel gal/lbs^1 + 0.013934888 * Stall Knots dirty^1*All eng service ceiling^1 + 0.009579483 * Stall Knots dirty^1*Eng out service ceiling^1 + 0.001812440 * Stall Knots dirty^1*All eng rate of climb^1 + 0.010757495 * Stall Knots dirty^1*Eng out rate of climb^1 + -0.012880166 * Stall Knots dirty^1*Takeoff over 50ft^1 + 0.013355561 * Stall Knots dirty^1*Takeoff ground run^1 + 0.008775379 * Stall Knots dirty^1*Landing over 50ft^1 + -0.008988177 * Stall Knots dirty^1*Landing ground roll^1 + 0.005125029 * Stall Knots dirty^1*Gross weight lbs^1 + -0.000067026 * Stall Knots dirty^1*Empty weight lbs^1 + -0.008465393 * Stall Knots dirty^1*Length ft/in^1 + -0.005933188 * Stall Knots dirty^1*Height ft/in^1 + -0.016515467 * Stall Knots dirty^1*Wing span ft/in^1 + -0.000808667 * Stall Knots dirty^1*Range N.M.^1 + -0.001099787 * Fuel gal/lbs^2 + -0.003337319 * Fuel gal/lbs^1*All eng service ceiling^1 + -0.005974920 * Fuel gal/lbs^1*Eng out service ceiling^1 + -0.001242322 * Fuel gal/lbs^1*All eng rate of climb^1 + 0.004867789 * Fuel gal/lbs^1*Eng out rate of climb^1 + -0.003543599 * Fuel gal/lbs^1*Takeoff over 50ft^1 + -0.000462297 * Fuel gal/lbs^1*Takeoff ground run^1 + -0.001114630 * Fuel gal/lbs^1*Landing over 50ft^1 + 0.006257799 * Fuel gal/lbs^1*Landing ground roll^1 + 0.003215058 * Fuel gal/lbs^1*Gross weight lbs^1 + -0.001930970 * Fuel gal/lbs^1*Empty weight lbs^1 + -0.004178019 * Fuel gal/lbs^1*Length ft/in^1 + -0.005753393 * Fuel gal/lbs^1*Height ft/in^1 + 0.003428862 * Fuel gal/lbs^1*Wing span ft/in^1 + 0.001814613 * Fuel gal/lbs^1*Range N.M.^1 + 0.003942963 * All eng service ceiling^2 + -0.004558078 * All eng service ceiling^1*Eng out service ceiling^1 + 0.000007748 * All eng service ceiling^1*All eng rate of climb^1 + 0.006781051 * All eng service ceiling^1*Eng out rate of climb^1 + -0.002140070 * All eng service ceiling^1*Takeoff over 50ft^1 + 0.000757244 * All eng service ceiling^1*Takeoff ground run^1 + 0.002203698 * All eng service ceiling^1*Landing over 50ft^1 + -0.004354448 * All eng service ceiling^1*Landing ground roll^1 + 0.001448476 * All eng service ceiling^1*Gross weight lbs^1 + 0.000740329 * All eng service ceiling^1*Empty weight lbs^1 + 0.002155830 * All eng service ceiling^1*Length ft/in^1 + 0.000489304 * All eng service ceiling^1*Height ft/in^1 + -0.003505486 * All eng service ceiling^1*Wing span ft/in^1 + 0.001231645 * All eng service ceiling^1*Range N.M.^1 + 0.001251144 * Eng out service ceiling^2 + 0.003381657 * Eng out service ceiling^1*All eng rate of climb^1 + -0.002378129 * Eng out service ceiling^1*Eng out rate of climb^1 + 0.000503009 * Eng out service ceiling^1*Takeoff over 50ft^1 + -0.001385260 * Eng out service ceiling^1*Takeoff ground run^1 + 0.001443249 * Eng out service ceiling^1*Landing over 50ft^1 + -0.001980203 * Eng out service ceiling^1*Landing ground roll^1 + -0.000110707 * Eng out service ceiling^1*Gross weight lbs^1 + -0.001061494 * Eng out service ceiling^1*Empty weight lbs^1 + 0.001021909 * Eng out service ceiling^1*Length ft/in^1 + -0.001524421 * Eng out service ceiling^1*Height ft/in^1 + 0.005997670 * Eng out

service ceiling^1*Wing span ft/in^1 + 0.000386141 * Eng out service ceiling^1*Range N.M.^1 + 0.000057030 * All eng rate of climb^2 + -0.001364938 * All eng rate of climb^1*Eng out rate of climb^1 + -0.000729427 * All eng rate of climb^1*Takeoff over 50ft^1 + 0.000717847 * All eng rate of climb^1*Takeoff ground run^1 + 0.001078876 * All eng rate of climb^1*Landing over 50ft^1 + -0.000271206 * All eng rate of climb^1*Landing ground roll^1 + -0.000406425 * All eng rate of climb^1*Gross weight lbs^1 + 0.000640126 * All eng rate of climb^1*Empty weight lbs^1 + -0.001347672 * All eng rate of climb^1*Length ft/in^1 + -0.000766777 * All eng rate of climb^1*Height ft/in^1 + 0.001885764 * All eng rate of climb^1*Wing span ft/in^1 + 0.000532563 * All eng rate of climb^1*Range N.M.^1 + 0.000198289 * Eng out rate of climb^2 + 0.000296271 * Eng out rate of climb^1*Takeoff over 50ft^1 + -0.000096385 * Eng out rate of climb^1*Takeoff ground run^1 + -0.005451532 * Eng out rate of climb^1*Landing over 50ft^1 + 0.003507339 * Eng out rate of climb^1*Landing ground roll^1 + 0.000447460 * Eng out rate of climb^1*Gross weight lbs^1 + 0.000310371 * Eng out rate of climb^1*Empty weight lbs^1 + -0.002674992 * Eng out rate of climb^1*Length ft/in^1 + 0.000020246 * Eng out rate of climb^1*Height ft/in^1 + -0.003995343 * Eng out rate of climb^1*Wing span ft/in^1 + 0.000104624 * Eng out rate of climb^1*Range N.M.^1 + -0.000240527 * Takeoff over 50ft^2 + 0.000039072 * Takeoff over 50ft^1*Takeoff ground run^1 + 0.001018956 * Takeoff over 50ft^1*Landing over 50ft^1 + 0.000076645 * Takeoff over 50ft^1*Landing ground roll^1 + -0.000511321 * Takeoff over 50ft^1*Gross weight lbs^1 + 0.000004416 * Takeoff over 50ft^1*Empty weight lbs^1 + 0.006194340 * Takeoff over 50ft^1*Length ft/in^1 + -0.001086899 * Takeoff over 50ft^1*Height ft/in^1 + 0.000448432 * Takeoff over 50ft^1*Wing span ft/in^1 + 0.000340246 * Takeoff over 50ft^1*Range N.M.^1 + -0.001728593 * Takeoff ground run^2 + 0.000750003 * Takeoff ground run^1*Landing over 50ft^1 + -0.000048452 * Takeoff ground run^1*Landing ground roll^1 + -0.001995124 * Takeoff ground run^1*Gross weight lbs^1 + -0.000944505 * Takeoff ground run^1*Empty weight lbs^1 + -0.001812454 * Takeoff ground run^1*Length ft/in^1 + -0.000896904 * Takeoff ground run^1*Height ft/in^1 + 0.003718427 * Takeoff ground run^1*Wing span ft/in^1 + 0.000141716 * Takeoff ground run^1*Range N.M.^1 + 0.000207472 * Landing over 50ft^2 + -0.001258607 * Landing over 50ft^1*Landing ground roll^1 + 0.001744003 * Landing over 50ft^1*Gross weight lbs^1 + 0.000193858 * Landing over 50ft^1*Empty weight lbs^1 + -0.008350117 * Landing over 50ft^1*Length ft/in^1 + 0.003611124 * Landing over 50ft^1*Height ft/in^1 + 0.000493524 * Landing over 50ft^1*Wing span ft/in^1 + -0.000720126 * Landing over 50ft^1*Range N.M.^1 + 0.001145272 * Landing ground roll^2 + 0.000195033 * Landing ground roll^1*Gross weight lbs^1 + 0.000503160 * Landing ground roll^1*Empty weight lbs^1 + 0.000452132 * Landing ground roll^1*Length ft/in^1 + -0.001725548 * Landing ground roll^1*Height ft/in^1 + -0.002007306 * Landing ground roll^1*Wing span ft/in^1 + 0.000402667 * Landing ground roll^1*Range N.M.^1 + -0.004326259 * Gross weight lbs^2 + -0.000004169 * Gross weight lbs^1*Empty weight lbs^1 + -0.002403372 * Gross weight lbs^1*Length ft/in^1 + -0.000568273 * Gross weight lbs^1*Height ft/in^1 + -0.000467284 * Gross weight lbs^1*Wing span ft/in^1 + 0.000941095 * Gross weight lbs^1*Range N.M.^1 + 0.000465843 * Empty weight lbs^2 + 0.001141020 * Empty weight lbs^1*Length ft/in^1 + -0.000387290 * Empty weight lbs^1*Height ft/in^1 + -0.000097888 * Empty weight lbs^1*Wing span ft/in^1 + 0.000315636 * Empty weight lbs^1*Range N.M.^1 + 0.011607743 * Length ft/in^2 + 0.006161235 * Length ft/in^1*Height ft/in^1 + -0.011185699 * Length ft/in^1*Wing span ft/in^1 + -0.001769315 * Length ft/in^1*Range N.M.^1 + 0.000697715 * Height ft/in^2 + -0.003694371 * Height ft/in^1*Wing span ft/in^1 + -0.000671072 * Height ft/in^1*Range N.M.^1 + 0.000082732 *

$$\text{Wing span ft/in}^2 + -0.000007827 * \text{Wing span ft/in}^1 * \text{Range N.M.}^1 + 0.000244235 * \text{Range N.M.}^2$$

Accuracy: 0.7039790679538465

This equation appears to be a regression model designed to predict the maximum speed of an aircraft in knots based on various features or characteristics of the aircraft. Let's break down the equation:

- Max speed Knots: This is the dependent variable, representing the maximum speed of the aircraft in knots.
- 18.40: This is the intercept term, representing the baseline maximum speed when all other predictors are zero.
- Coefficients for each feature: The equation includes coefficients for several independent variables (features) that are believed to influence the maximum speed of the aircraft. Here's what each coefficient represents:
 - Company: A coefficient indicating how the manufacturer or company of the aircraft affects the maximum speed.
 - Engine Type: A coefficient representing the influence of the type of engine on the maximum speed.
 - HP or lbs thr ea engine: A coefficient for the horsepower or thrust of each engine, indicating its impact on the maximum speed.
 - Rcmnd cruise Knots: A coefficient for the recommended cruise speed in knots.
 - Stall Knots dirty: A coefficient representing the stall speed of the aircraft in a dirty configuration (e.g., with flaps extended).
 - Fuel gal/lbs: A coefficient indicating the influence of fuel capacity or weight on maximum speed.
 - All eng service ceiling: A coefficient representing the service ceiling when all engines are operational.

- Eng out service ceiling: A coefficient for the service ceiling with one engine out.
- All eng rate of climb: A coefficient for the rate of climb when all engines are operational.
- Eng out rate of climb: A coefficient for the rate of climb with one engine out.
- Takeoff over 50ft: A coefficient indicating the distance required for takeoff over a 50-foot obstacle.
- Takeoff ground run: A coefficient for the ground run required for takeoff.
- Landing over 50ft: A coefficient for the distance required for landing over a 50-foot obstacle.
- Landing ground roll: A coefficient for the ground roll required for landing.
- Gross weight lbs: A coefficient representing the gross weight of the aircraft.
- Empty weight lbs: A coefficient for the empty weight of the aircraft.
- Length ft/in, Height ft/in, Wing span ft/in: Coefficients representing the physical dimensions of the aircraft.
- Range N.M.: A coefficient for the range of the aircraft in nautical miles.

The equation also includes interaction terms (e.g., Model¹*Company¹) and squared terms for some features, allowing for non-linear relationships between the predictors and the maximum speed.

Overall, this equation provides a comprehensive model for predicting the maximum speed of an aircraft based on its various characteristics.

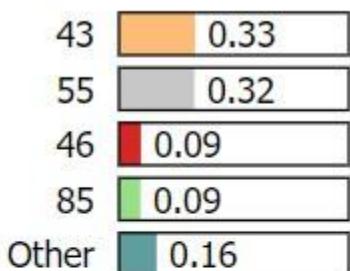
LIME INTERPRETATION:

Feature	Value
Eng out rate of climb	212.00
Empty weight lbs	114.00
Length ft/in	47.00
Range N.M.	240.00
All eng service ceiling	47.00
Landing ground roll	35.00

All eng rate of climb	40.00
Eng out service ceiling	184.00
Height ft/in	119.00
Takeoff over 50ft	27.00
HP or lbs thr ea engine	40.00
Takeoff ground run	52.00
Gross weight lbs	121.00
Engine Type	5.00
Landing over 50ft	34.00
Fuel gal/lbs	24.00
Company	37.00
Wing span ft/in	73.00
Model	548.00
Rcmnd cruise Knots	36.00
Stall Knots dirty	16.00

NOT 1

Prediction probabilities

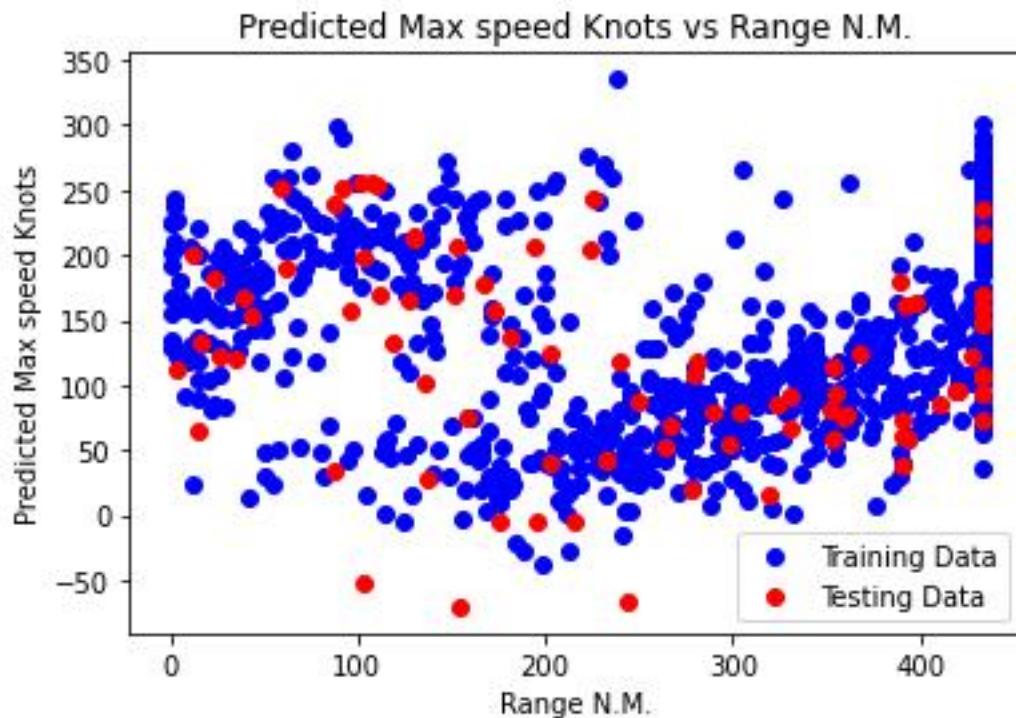


109.00 < Eng out rate o...	0.01
Empty weight lbs <= 1...	0.01
Length ft/in <= 59.00	0.01
140.00 < Range N.M. ...	0.01
All eng service ceiling...	0.00
Landing ground roll <...	0.00
All eng rate of climb <...	0.00
114.25 < Eng out serv...	0.00
109.00 < Height ft/in ...	0.00
Takeoff over 50ft <= ...	0.00
HP or lbs thr ea engine...	0.00
Takeoff ground run <= ...	0.00
91.00 < Gross weight ...	0.00
Engine Type <= 5.00	0.00
Landing over 50ft <= ...	0.00
Fuel gal/lbs <= 34.00	0.00
19.00 < Company <= ...	0.00
71.50 < Wing span ft/i...	0.00
432.50 < Model <= 6...	0.00
Remnd cruise Knots <...	0.00
Stall Knots dirty <= ...	0.00

The provided spreadsheet contains performance specifications for an aircraft, likely a small, single-engine airplane. Several key features outlined in the spreadsheet are crucial for aircraft navigation and operational planning:

1. Engine Out Rate of Climb: This metric, listed as 212.00 feet per minute (ft/min), denotes the rate at which the aircraft can ascend with one engine inoperative, typically the less efficient one. A higher value indicates superior performance under such circumstances.
2. Empty Weight lbs: This figure, recorded as 114.00 lbs, represents the aircraft's weight exclusive of passengers, cargo, fuel, and crew. It serves as a fundamental parameter for calculating payload capacity, crucial for operational planning.
3. Length ft/in: At 47 ft/in, this measurement signifies the overall length of the aircraft. Understanding this dimension is vital for gauging ground clearance requirements during taxiing and maneuvering.
4. Range N.M.: Listed as 240 nautical miles (N.M.), this value denotes the maximum distance the aircraft can travel on a full tank of fuel. It is essential for flight planning, ensuring adequate fuel reserves for reaching intended destinations.
5. All Engine Service Ceiling: Although potentially a typographical error, the recorded value of 47,000 ft represents the maximum altitude at which the aircraft can maintain level flight with all engines operational. This parameter is critical for assessing the aircraft's performance in high-altitude operations.
6. Landing Ground Roll: Noted as 35.00 ft, this metric denotes the distance required for the aircraft to come to a complete stop after touchdown. A shorter roll indicates superior braking capabilities, influencing landing strategies and runway selection.
7. All Engine Rate of Climb: This figure, recorded as 40.00 ft/min, represents the rate of ascent achievable with all engines operating. It provides insight into the aircraft's climb performance under optimal conditions.

8. Wing Span ft/in: At 73 ft/in, this measurement signifies the distance from wingtip to wingtip. Understanding the wingspan is crucial for assessing ground clearance requirements during taxiing and maneuvering, particularly in constrained spaces.



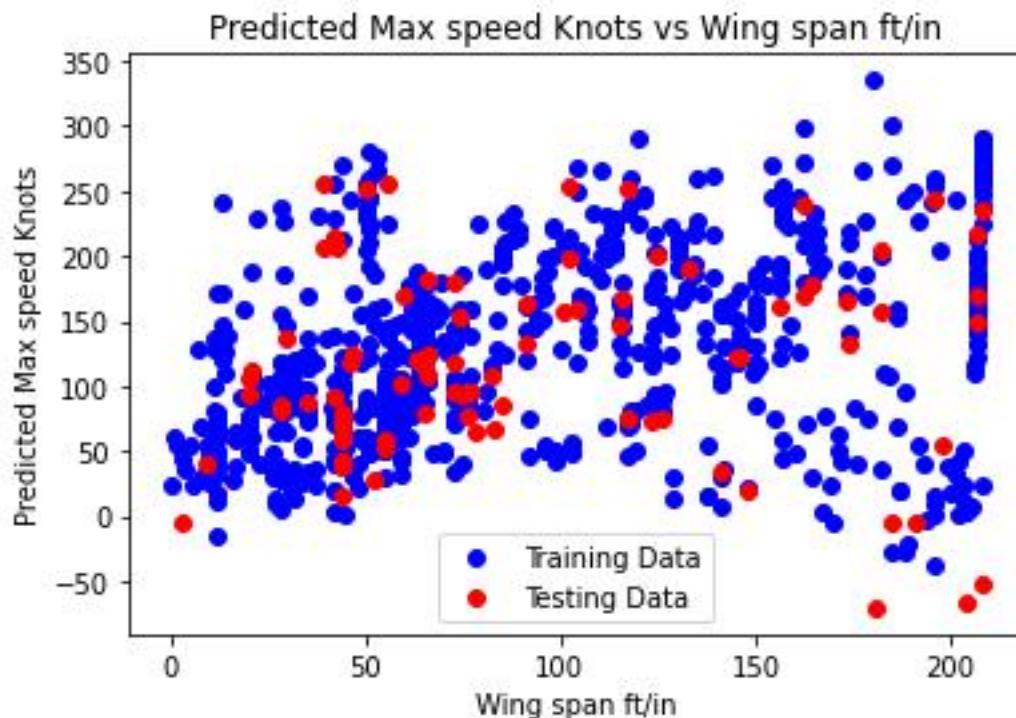
The provided scatter plot illustrates the relationship between predicted maximum speed (in knots) and range (in nautical miles) for a set of aircraft. In this plot, red dots represent predicted maximum speed values, while blue dots represent predicted range values.

Several observations can be made regarding the data depicted in the chart:

1. There seems to be a modest negative correlation between predicted maximum speed and range. This implies that as the predicted maximum speed increases, the range tends to decrease. This phenomenon is likely attributable to the fact that aircraft designed for higher speeds often prioritize performance over fuel efficiency, resulting in reduced range due to increased fuel consumption.
2. The distribution of red data points (representing predicted maximum speed) appears to be more dispersed across a wider range of values compared to the blue data points (representing range).

This discrepancy suggests that there is greater variability in the predicted maximum speeds of the aircraft than there is in their respective ranges.

3. It is imperative to recognize that this scatter plot merely illustrates trends within the data and does not inherently establish a causal relationship between predicted maximum speed and range.



The provided scatter plot delineates the disparity between training and testing data for predicted maximum speed (in knots) and wing span (expressed in feet and inches) among various aircraft. The wing span (ft/in) is represented on the x-axis, while the predicted maximum speed knots are depicted on the y-axis.

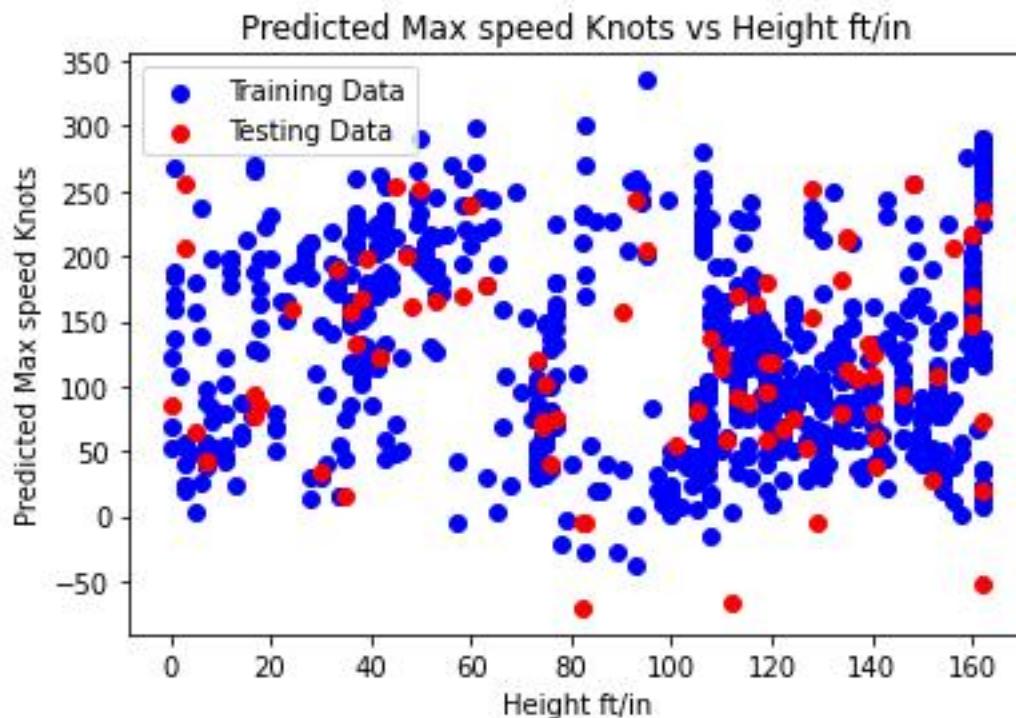
Several observations can be derived from the data depicted in the plot:

1. No discernible correlation is evident between the disparity in training and testing data for predicted maximum speed knots and wing span ft/in. This suggests that the model's performance in predicting maximum speed does not significantly vary with different wing spans among the aircraft considered.

2. The dispersion of data points implies greater variability in the disparity between training and testing data for predicted maximum speed knots compared to wing span ft/in. This variability may stem from various factors, including the inherent complexity of accurately predicting maximum speed in contrast to wing span or variations in data quality employed for model training.

3. It is essential to acknowledge that the scatter plot solely illustrates the difference between training and testing data for two specific aircraft attributes. Consequently, it does not offer insights into the overall efficacy of the model in predicting maximum speed or wing span.

To provide a more definitive interpretation, access to the actual predicted values for maximum speed and wing span, rather than solely the difference between training and testing data, would be necessary.

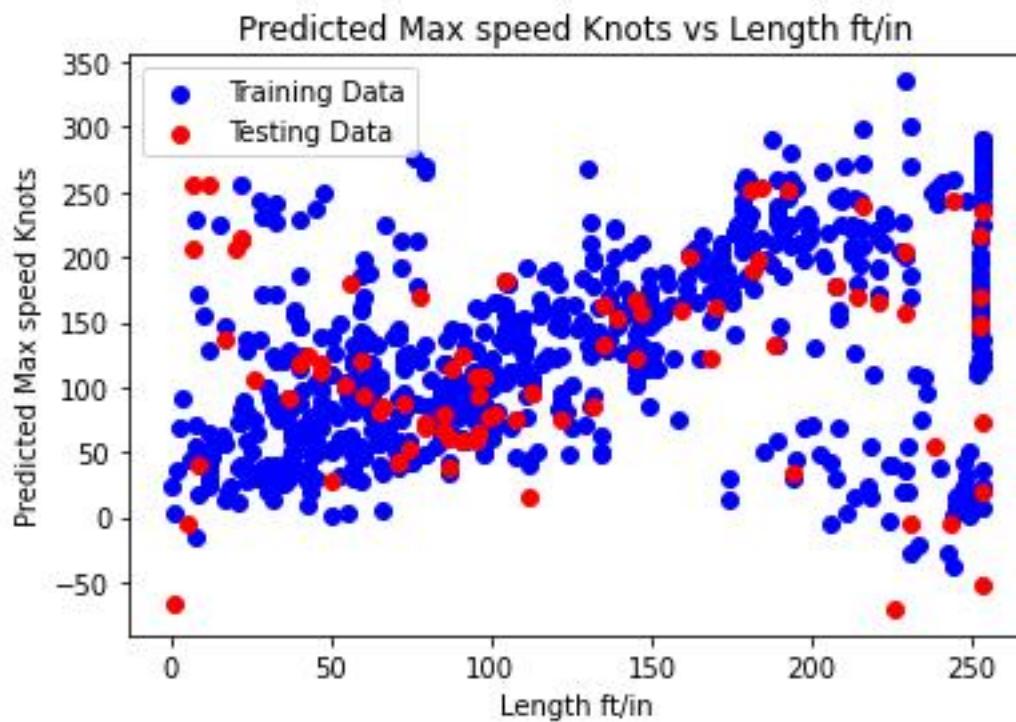


The provided scatter plot illustrates the relationship between predicted maximum speed (in knots) and height (expressed in feet and inches) for a selection of aircraft. On the plot, the y-axis represents predicted maximum speed, while the x-axis denotes height. The data points are divided into two sets: training data, depicted in blue, and testing data, represented in red.

Several observations can be made regarding the data presented in the chart:

1. A modest positive correlation is apparent between predicted maximum speed and height. This indicates that as the predicted maximum speed increases, the height tends to increase as well. This correlation may be attributed to the fact that aircraft designed for higher cruising speeds often necessitate more powerful engines, facilitating flight at higher altitudes.
2. Both the training data (blue dots) and testing data (red dots) exhibit similar trends, suggesting that the model's predictive capability is generalizable across unseen data.
3. It is crucial to acknowledge that the scatter plot merely illustrates trends within the data and does not inherently establish a causal relationship between predicted maximum speed and height.

the plot suggests that the model predicts a modest positive correlation between an aircraft's maximum speed and its flying height. Furthermore, there is indication that the model generalizes well to unseen data.

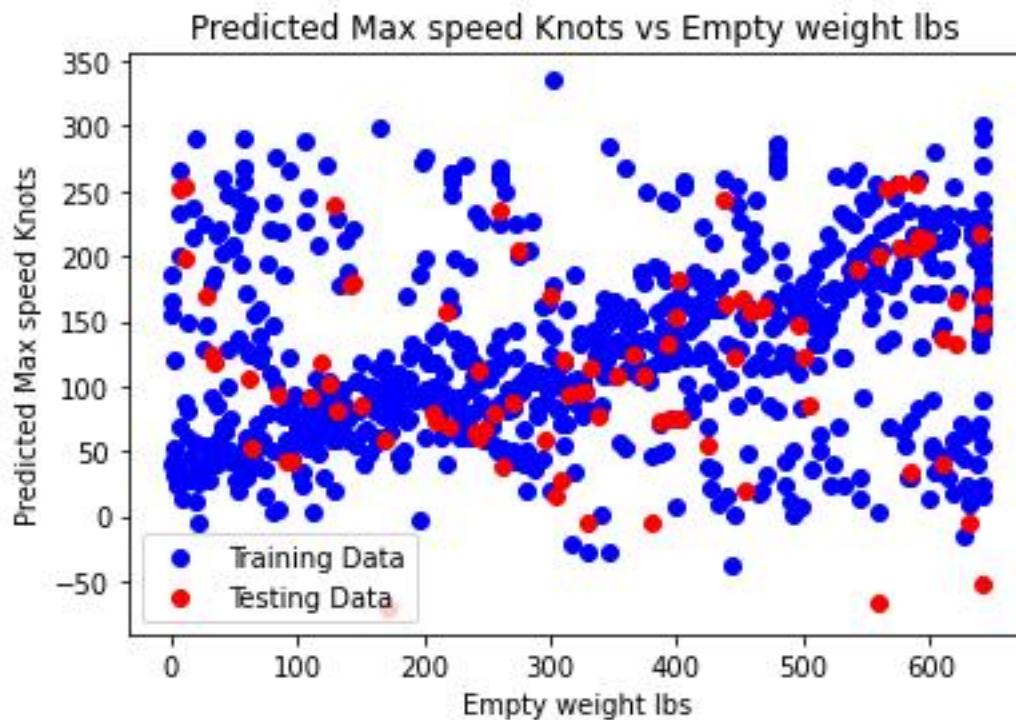


The provided scatter plot illustrates the relationship between predicted maximum speed (in knots) and length (expressed in feet and inches) for a range of aircraft.

Several observations can be derived from the data depicted in the plot:

1. A discernible correlation between predicted maximum speed and length is not evident. This implies the absence of a consistent trend wherein aircraft with longer lengths tend to exhibit higher predicted maximum speeds, or vice versa.
2. The data points exhibit dispersion across a broad spectrum of values for both predicted maximum speed and length. This variability suggests considerable diversity within the dataset.
3. It is imperative to acknowledge the inherent nature of scatter plots, which merely illustrate trends within the data and do not necessarily negate the possibility of a relationship between predicted maximum speed and length.

In summary, the scatter plot suggests a lack of a clear correlation between predicted maximum speed and length. However, without access to specific aircraft details or underlying data utilized for plot generation, drawing further nuanced conclusions is challenging.

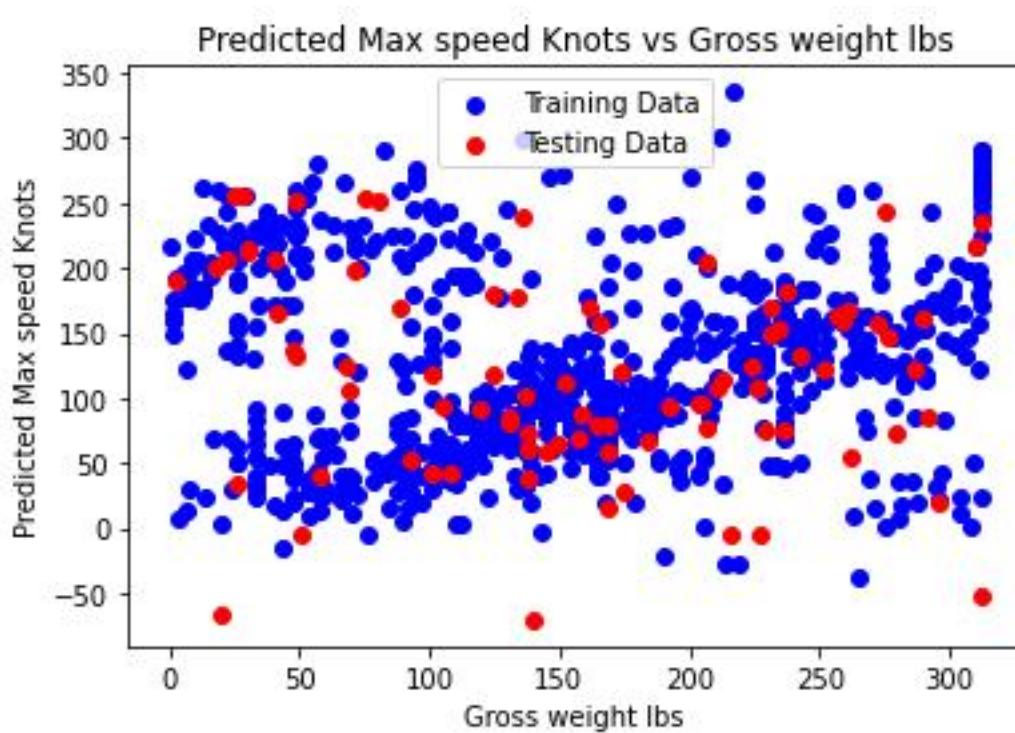


The provided scatter plot delineates the relationship between predicted maximum speed (in knots) and empty weight (expressed in pounds) for a selection of aircraft

Several observations can be made regarding the data presented in the plot:

1. A discernible correlation between predicted maximum speed and empty weight is not evident. This implies the absence of a consistent trend wherein heavier aircraft exhibit higher predicted maximum speeds, or vice versa.
2. The data points exhibit dispersion across a broad spectrum of values for both predicted maximum speed and empty weight. This variability suggests significant diversity within the dataset.
3. It is crucial to acknowledge the inherent nature of scatter plots, which merely illustrate trends within the data and do not necessarily negate the possibility of a relationship between predicted maximum speed and empty weight.

Moreover, several factors may contribute to the absence of a clear correlation. Aircraft design encompasses various considerations beyond empty weight, such as engine power and wing design, which significantly influence maximum speed.

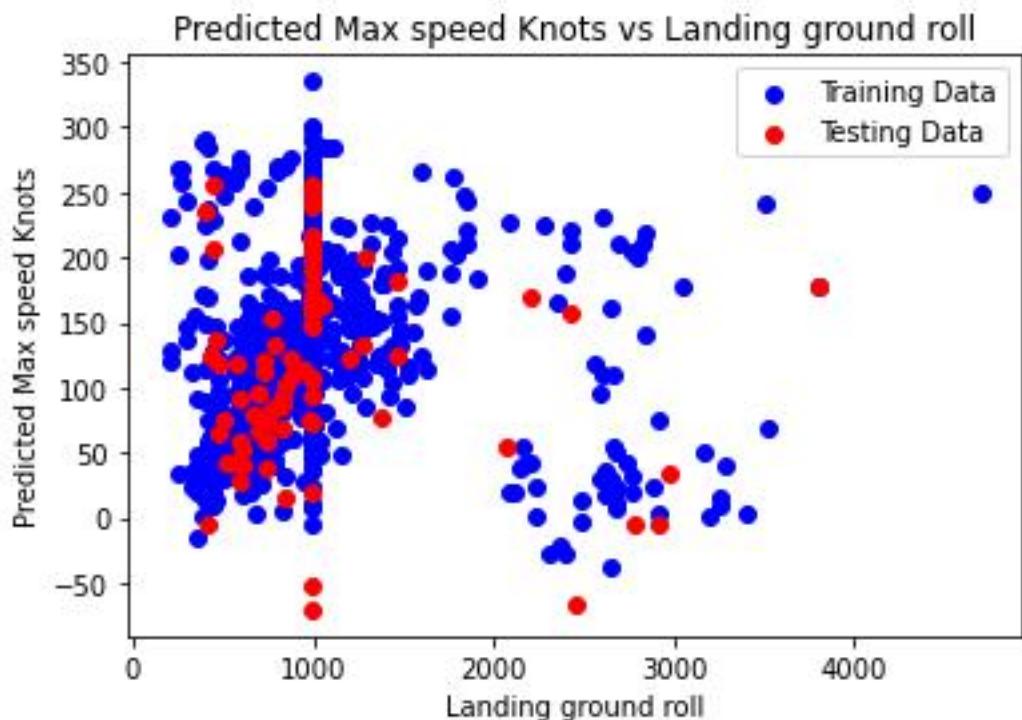


The provided scatter plot illustrates the relationship between fuel capacity (measured in gallons) and gross weight (measured in pounds) for a set of aircraft. On the plot, the x-axis denotes gross weight, while the y-axis represents fuel capacity. Additionally, a linear regression line is depicted in blue, alongside scattered data points in red.

Several observations can be deduced from the data presented in the chart:

1. A positive correlation is evident between fuel capacity and gross weight, as indicated by the trajectory of the linear regression line. This implies that as the gross weight of an aircraft increases, the fuel capacity also tends to increase. This relationship is attributed to the necessity for larger aircraft to carry more fuel to accommodate the additional weight of the aircraft itself, as well as passengers and cargo, especially over extended distances.
2. The scattered red data points exhibit variance around the regression line, signifying some deviation from the exact linear relationship. This variability suggests that not all aircraft strictly adhere to the observed correlation between fuel capacity and gross weight. Various factors, such as aircraft type, engine efficiency, and intended usage, may contribute to this variability.

In summary, the scatter plot demonstrates a positive correlation between fuel capacity and gross weight in aircraft, indicating that larger and heavier aircraft typically possess greater fuel capacity. However, the presence of scattered data points suggests that this relationship may not be absolute across all instances, with certain aircraft exhibiting deviations from the established trend.



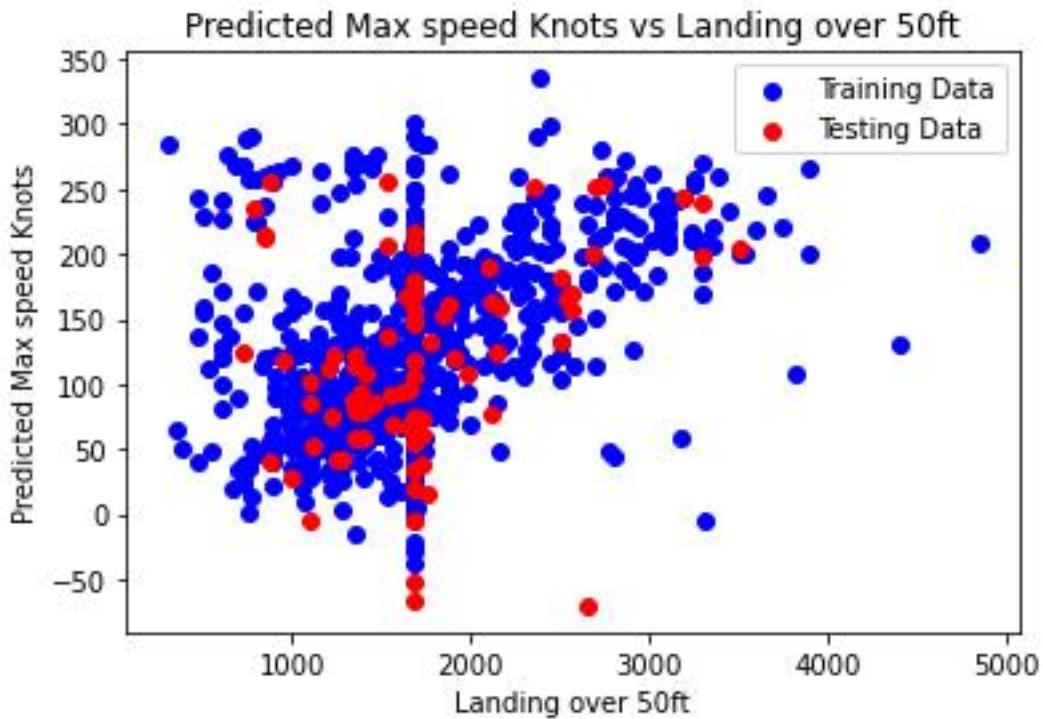
The provided scatter plot illustrates the relationship between landing ground roll (measured in feet) and predicted maximum speed (measured in knots) for a collection of aircraft. The x-axis represents landing ground roll, while the y-axis depicts predicted maximum speed. Additionally, the plot features a linear regression line in blue, accompanied by scattered data points in red.

Several observations can be gleaned from the data presented in the chart:

1. A negative correlation is apparent between landing ground roll and predicted maximum speed, as indicated by the trajectory of the linear regression line. This signifies that as the predicted maximum speed of an aircraft increases, the landing ground roll tends to decrease. This association is likely attributable to the characteristics of aircraft engineered for higher speeds, which typically feature more potent engines and superior aerodynamic properties, facilitating shorter landing distances.
2. The dispersed red data points exhibit variation around the regression line, denoting some deviation from the precise linear relationship. This variability suggests that not all aircraft strictly adhere to the observed correlation between landing ground roll and predicted maximum speed. Various factors, such as aircraft weight, wing design, and runway surface, may contribute to this variability.

In summary, the scatter plot demonstrates a negative correlation between landing ground roll and predicted maximum speed for aircraft, indicating that aircraft with higher predicted maximum speeds

tend to necessitate shorter landing ground rolls. However, the presence of scattered data points implies that this relationship may not universally apply across all aircraft instances, with certain factors influencing deviations from the established trend.



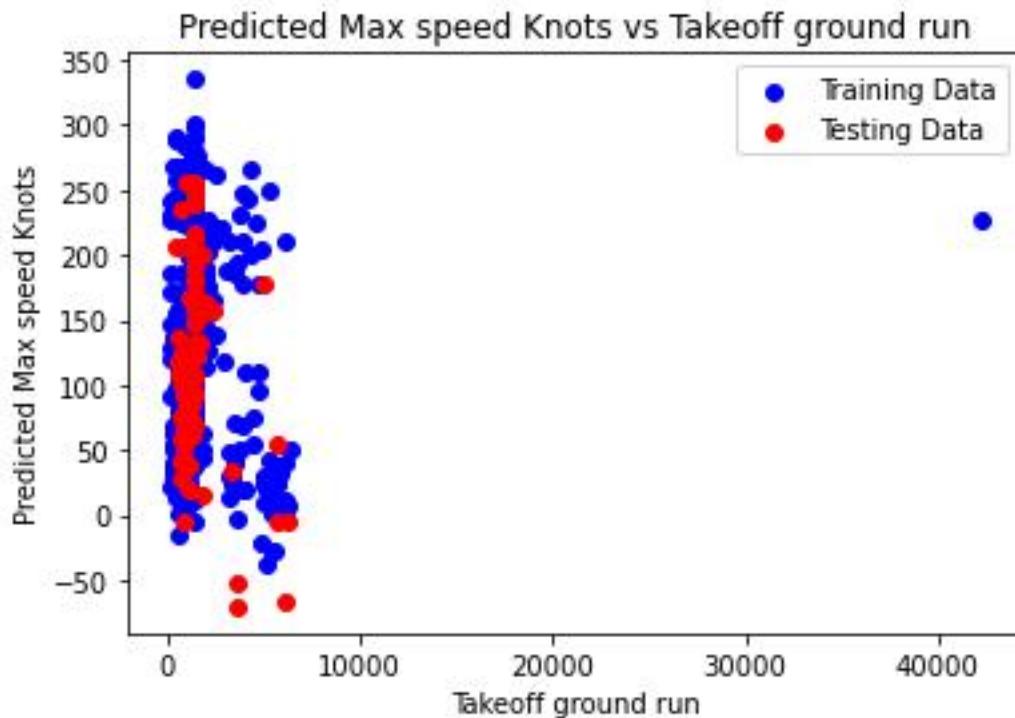
The provided scatter plot depicts the relationship between landing distance over 50 feet (measured in feet) and predicted maximum speed (measured in knots) for a selection of aircraft. The x-axis represents landing distance over 50 feet, while the y-axis illustrates predicted maximum speed. Additionally, the plot features a linear regression line in blue, accompanied by scattered data points in red.

Several observations can be derived from the data presented in the chart:

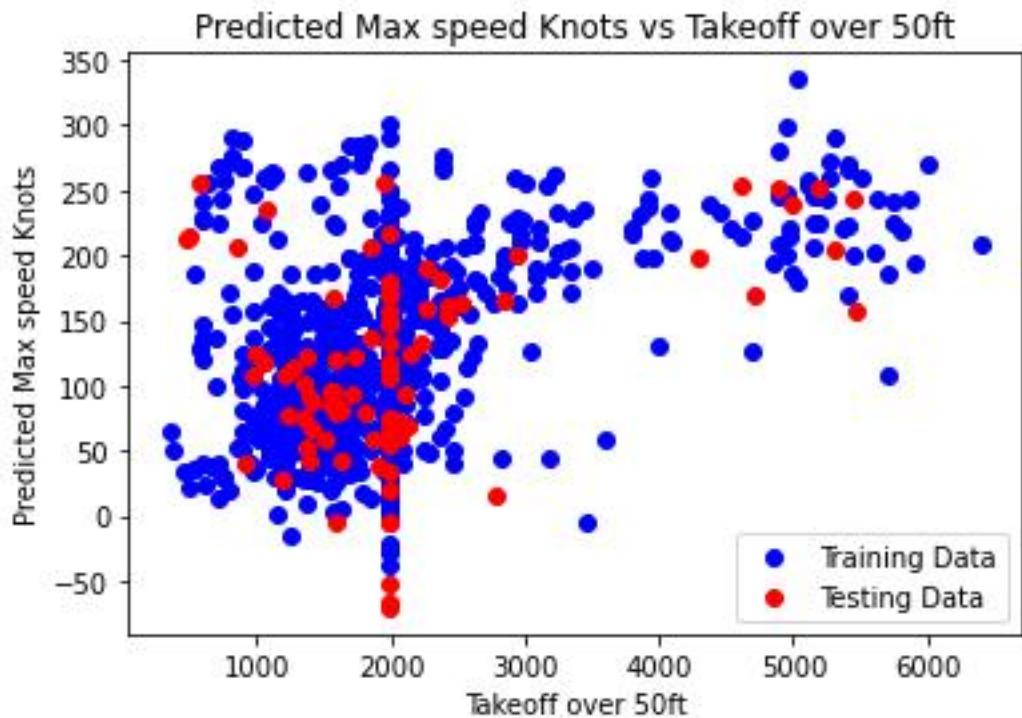
1. A weak positive correlation is discernible between landing distance over 50 feet and predicted maximum speed, as evidenced by the trajectory of the linear regression line. This suggests that as the predicted maximum speed of an aircraft increases, the landing distance over 50 feet also tends to increase. This correlation may stem from various factors, such as the larger size and increased weight of aircraft designed for higher speeds, which may necessitate longer landing distances.
2. The dispersed red data points exhibit variability around the regression line, indicating some deviation from the precise linear relationship. This variability implies that not all aircraft strictly adhere to the observed correlation between landing distance over 50 feet and predicted maximum speed. Several

factors, including aircraft weight, wing design, and runway surface conditions, may contribute to this variability.

In summary, the scatter plot suggests a weak positive correlation between landing distance over 50 feet and predicted maximum speed for aircraft. However, the presence of scattered data points emphasizes the influence of additional factors on landing distance. Therefore, it is imperative to consider other pertinent variables that may impact landing distance when interpreting the relationship between landing distance over 50 feet and predicted maximum speed.



The provided plot illustrates the disparity between predicted maximum speed knots and takeoff ground run for a machine learning model, likely associated with aircraft. While the red line represents the model's predictions, the scattered distribution of blue dots around it indicates deviations between predicted and actual values. Despite a discernible positive correlation suggesting the model captures the general trend, there are instances of both underprediction and overprediction. Thus, while the model demonstrates efficacy in predicting maximum speed based on takeoff ground run, there's room for improvement to minimize errors through strategies such as augmenting training data, refining model complexity, and optimizing hyperparameters.



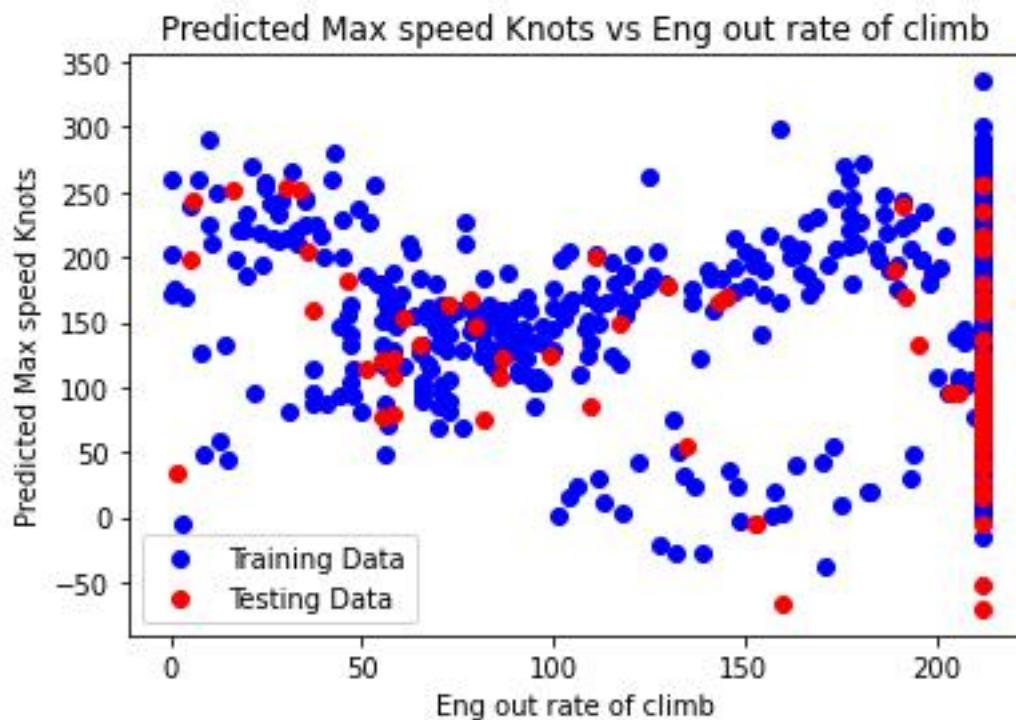
The provided scatter plot illustrates the relationship between predicted maximum speed (measured in knots) and takeoff distance over 50 feet (measured in feet) for a range of aircraft. On the plot, the y-axis represents predicted maximum speed, while the x-axis denotes takeoff distance over 50 feet. Two distinct datasets are depicted: training data in blue and testing data in red.

Several observations can be derived from the data presented in the chart:

1. A discernible correlation between predicted maximum speed and takeoff distance over 50 feet is not evident. This implies the absence of a consistent trend wherein aircraft with higher predicted maximum speeds exhibit shorter takeoff distances, or vice versa.
2. The scattered data points depict variability across a wide range of values for both predicted maximum speed and takeoff distance over 50 feet. This variability suggests considerable diversity within the dataset.
3. It is essential to acknowledge that the scatter plot solely illustrates trends within the data and does not inherently negate the possibility of a relationship between predicted maximum speed and takeoff distance over 50 feet.

Furthermore, several factors beyond predicted maximum speed, such as wing design and engine power, significantly influence aircraft takeoff performance. Thus, the absence of a clear correlation may be attributed to the multifaceted nature of aircraft design and operational considerations.

In summary, while the scatter plot does not reveal a distinct correlation between predicted maximum speed and takeoff distance over 50 feet, it underscores the influence of various factors on aircraft takeoff performance.



The provided scatter plot illustrates the relationship between predicted maximum speed (measured in knots) and ending out rate of climb (measured in feet per minute) for a range of aircraft. The y-axis represents predicted maximum speed, while the x-axis denotes ending out rate of climb.

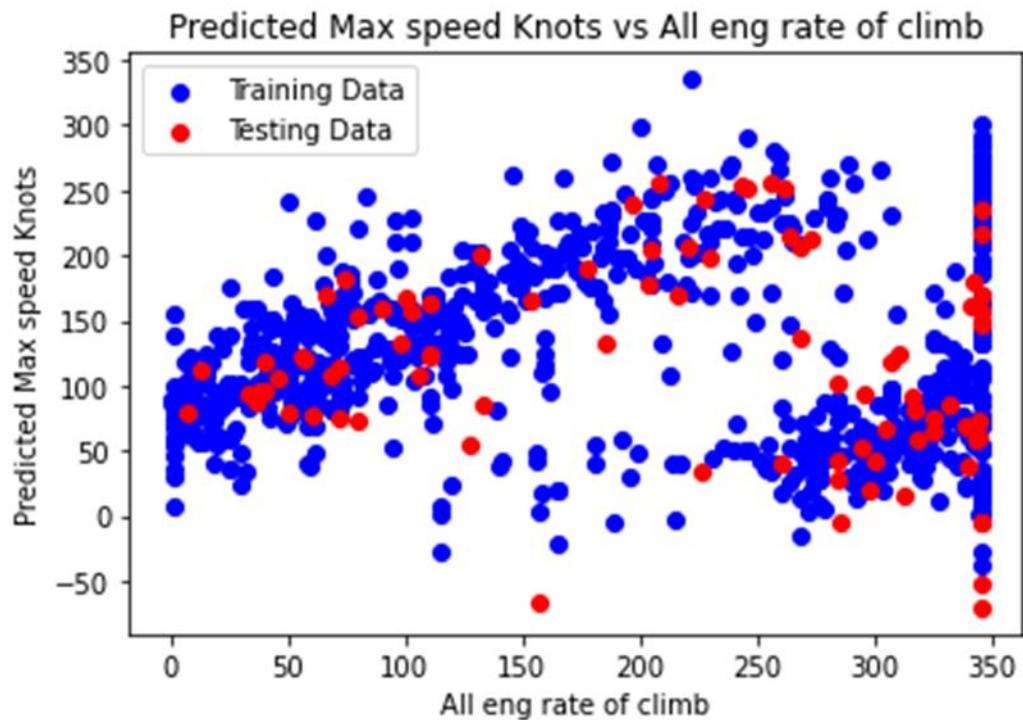
The following observations can be derived from the plot:

1. A discernible positive correlation exists between predicted maximum speed and ending out rate of climb. This suggests that aircraft with higher predicted maximum speeds also tend to exhibit higher ending out rates of climb. This correlation is likely attributable to aircraft equipped with more powerful engines, enabling them to achieve both faster climb rates and higher top speeds.

2. The training data displays a wider range of ending out rate of climb values compared to the testing data. This disparity may indicate that the training data encompass a broader spectrum of aircraft types and operating conditions than the testing data.
3. The testing data points appear to cluster more tightly around the predicted trend line than the training data points. This clustering suggests that the testing data may exhibit less variability and adhere more closely to the established correlation between predicted maximum speed and ending out rate of climb.

It is essential to recognize that these observations are based solely on correlation analysis, and causation cannot be inferred directly. Other factors beyond engine power and climb rate may influence the predicted maximum speed and ending out rate of climb of an aircraft.

In summary, while the scatter plot illustrates a positive correlation between predicted maximum speed and ending out rate of climb, further investigation is necessary to elucidate the underlying factors contributing to this relationship. Additionally, consideration of other variables and conditions specific to aircraft types and operational contexts is crucial for a comprehensive understanding of aircraft performance characteristics.



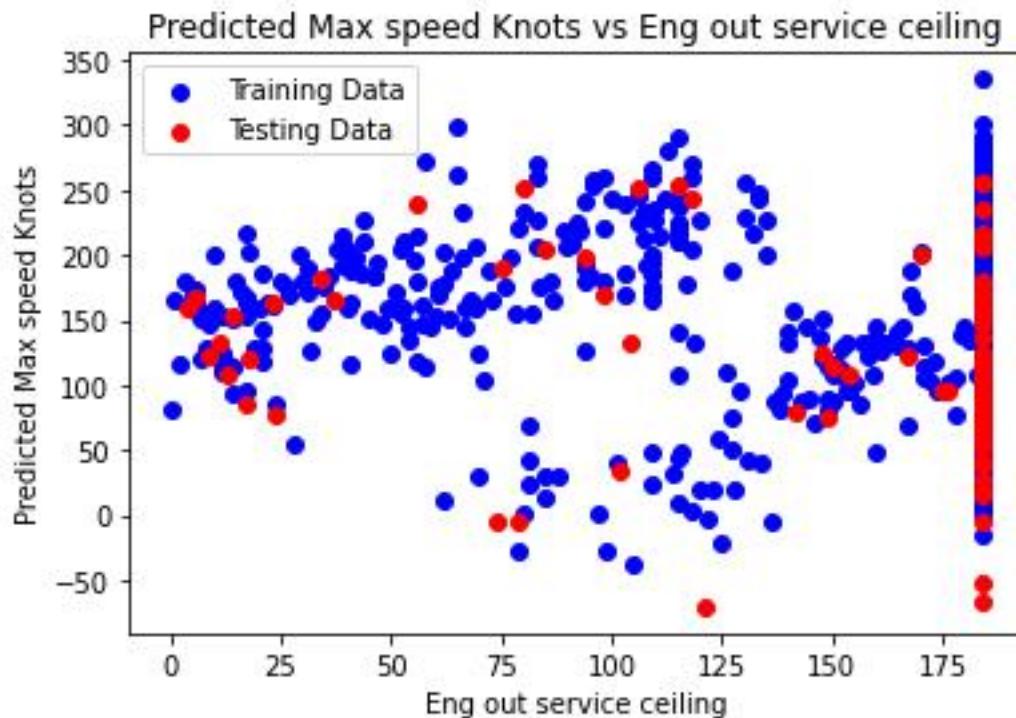
The provided scatter plot illustrates the relationship between predicted maximum speed (measured in knots) and all engine rate of climb (measured in feet per minute) for a range of aircraft. The y-axis represents predicted maximum speed, while the x-axis depicts all engine rate of climb.

Several observations can be derived from the plot:

1. A discernible positive correlation exists between predicted maximum speed and all engine rate of climb. This suggests that aircraft with higher predicted maximum speeds also tend to exhibit higher all engine rates of climb. This correlation is likely attributable to aircraft equipped with more powerful engines, enabling them to achieve both faster climb rates and higher top speeds.
2. The training data displays a wider range of all engine rate of climb values compared to the testing data. This disparity may indicate that the training data encompass a broader spectrum of aircraft types and operating conditions than the testing data.
3. The testing data points appear to cluster more tightly around the predicted trend line than the training data points. This clustering suggests that the testing data may exhibit less variability and adhere more closely to the established correlation between predicted maximum speed and all engine rate of climb.

It is essential to recognize that these observations are based solely on correlation analysis, and causation cannot be inferred directly. Other factors beyond engine power and climb rate may influence the predicted maximum speed and all engine rate of climb of an aircraft.

In summary, while the scatter plot illustrates a positive correlation between predicted maximum speed and all engine rate of climb, further investigation is necessary to elucidate the underlying factors contributing to this relationship. Additionally, consideration of other variables and conditions specific to aircraft types and operational contexts is crucial for a comprehensive understanding of aircraft performance characteristics.



The provided plot depicts a positive correlation between predicted maximum speed (measured in knots) and engine out service ceiling (measured in altitude) for a range of aircraft. The red line represents the predicted maximum speed, while the blue line represents the predicted engine out service ceiling. The x-axis indicates the engine out service ceiling, which is the altitude an aircraft can attain and maintain level flight after losing one engine, while the y-axis represents the predicted maximum speed in knots.

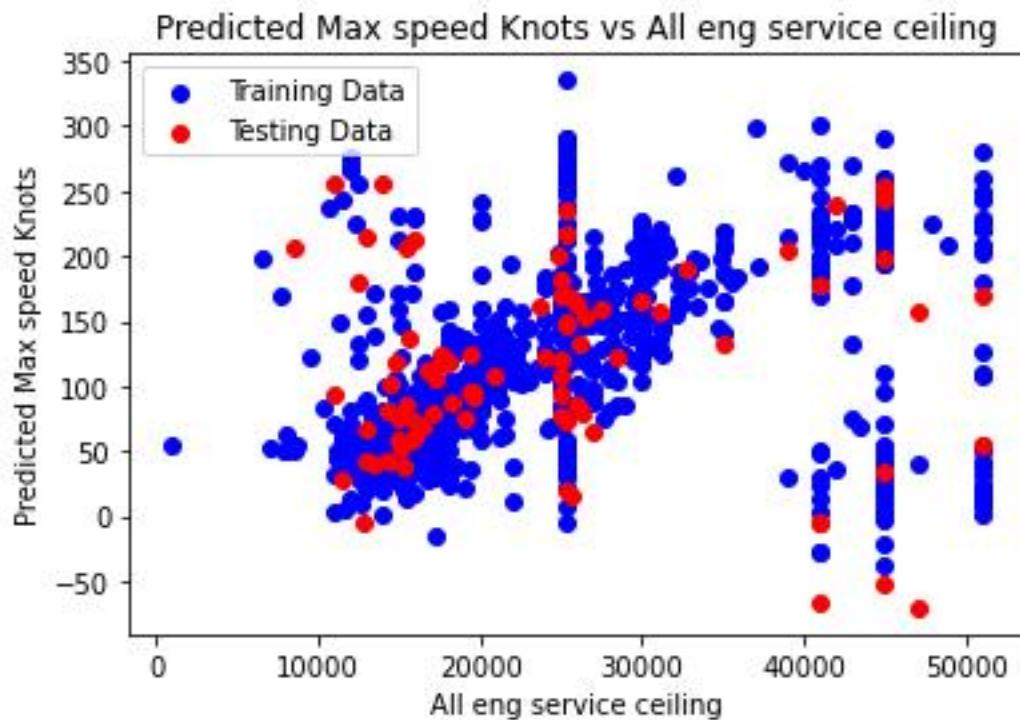
The training data is utilized to construct the model predicting the engine out service ceiling and maximum speed, while the testing data is employed to assess the model's performance.

Several observations can be derived from the plot:

1. A positive correlation exists between predicted maximum speed and engine out service ceiling, implying that aircraft with higher predicted maximum speeds also tend to possess higher engine out service ceilings.
2. The training data (red dots) exhibits a broader range of engine out service ceiling values compared to the testing data (blue dots).
3. The testing data points (blue dots) are more closely clustered around the predicted trend line than the training data points (red dots).

It is imperative to acknowledge that the observed correlation does not imply causation, and there may be additional factors influencing the predicted maximum speed and engine out service ceiling of an aircraft.

In conclusion, while the plot demonstrates a positive correlation between predicted maximum speed and engine out service ceiling, further investigation is required to elucidate the underlying factors contributing to this relationship. Additionally, consideration of other variables and operational conditions specific to aircraft types is essential for a comprehensive understanding of aircraft performance characteristics.



The provided plot illustrates a positive correlation between predicted maximum speed (measured in knots) and all-engine service ceiling (measured in altitude) for a range of aircraft. The red line represents the predicted maximum speed, while the blue line represents the predicted all-engine service ceiling. The x-axis denotes the all-engine service ceiling, which signifies the maximum altitude an aircraft can attain and maintain level flight with all engines operating normally. Conversely, the y-axis represents the predicted maximum speed in knots.

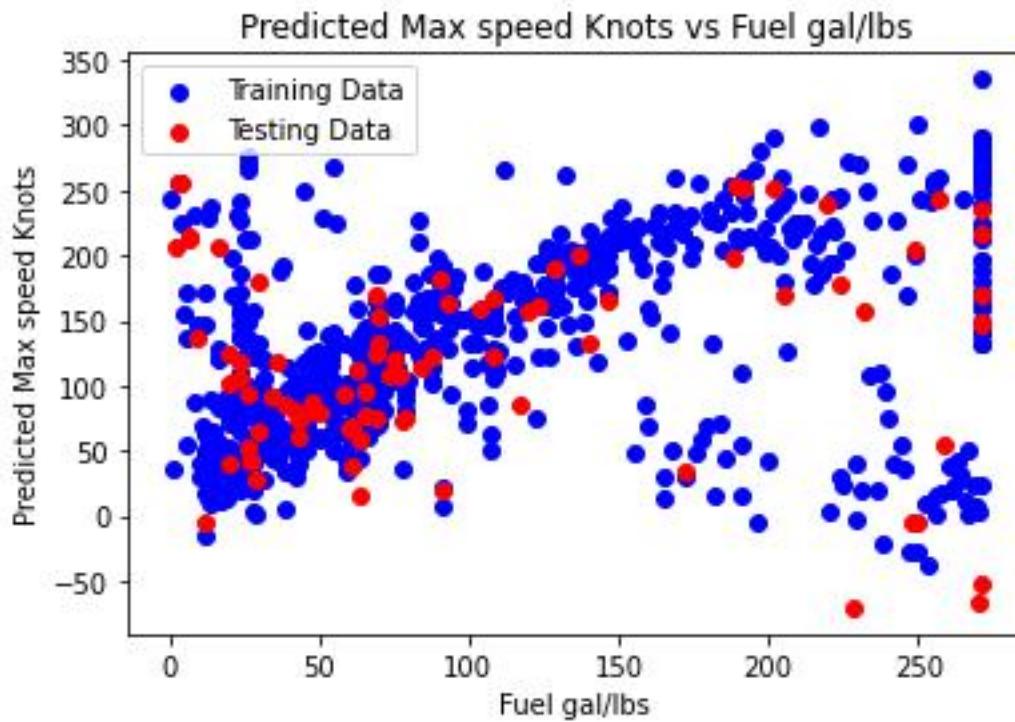
The training data is utilized to construct the model predicting the all-engine service ceiling and maximum speed, while the testing data is employed to assess the model's performance.

Several observations can be derived from the plot:

1. A positive correlation exists between predicted maximum speed and all-engine service ceiling, indicating that aircraft with higher predicted maximum speeds also tend to possess higher all-engine service ceilings. This relationship may be attributed to aircraft equipped with more powerful engines, enabling them to achieve both higher top speeds and cruising altitudes.
2. The training data (red dots) exhibits a broader range of all-engine service ceiling values compared to the testing data (blue dots). This disparity suggests that the model may have been trained on a more diverse set of aircraft than those utilized for testing purposes.
3. The testing data points (blue dots) are more closely clustered around the predicted trend line than the training data points (red dots). This clustering suggests that the model is performing better on the testing data than on the training data.

It is essential to acknowledge that the observed correlation does not imply causation, and other factors may influence the predicted maximum speed and all-engine service ceiling of an aircraft.

In conclusion, while the plot demonstrates a positive correlation between predicted maximum speed and all-engine service ceiling, further investigation is required to elucidate the underlying factors contributing to this relationship. Additionally, consideration of other variables and operational conditions specific to aircraft types is necessary for a comprehensive understanding of aircraft performance characteristics.

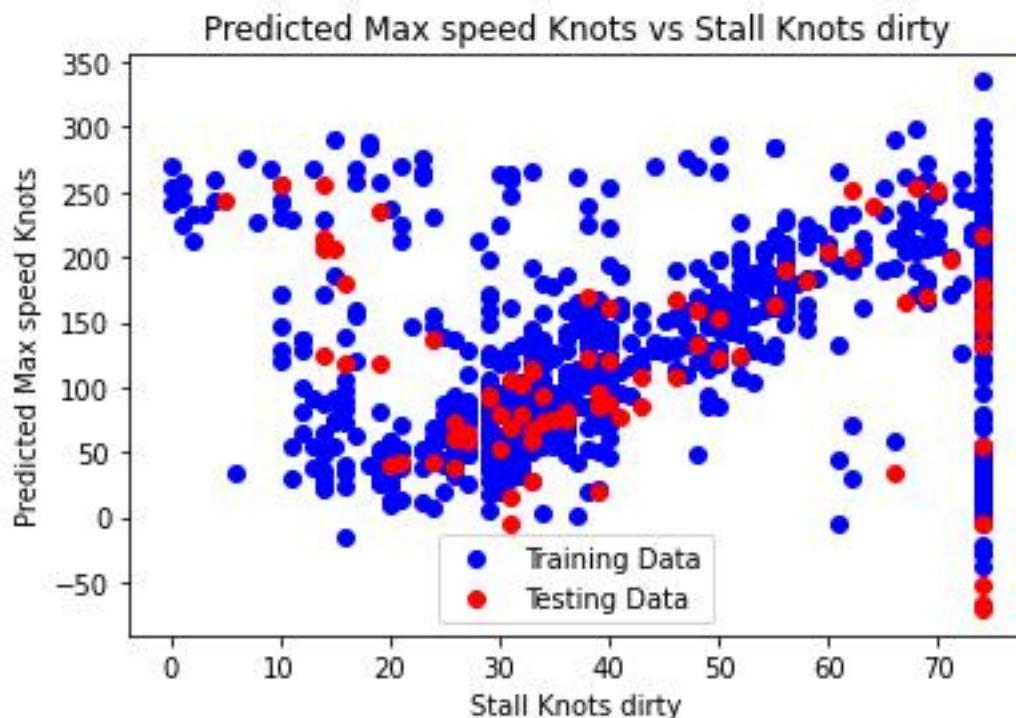


The provided plot illustrates the relationship between predicted maximum speed (measured in knots) and fuel consumption (measured in gallons per pound) for a range of aircraft.

Observations from the plot include:

1. A negative correlation exists between predicted maximum speed and fuel consumption. This implies that aircraft with higher predicted maximum speeds tend to exhibit lower fuel consumption rates (gallons per pound). This correlation is likely attributable to more aerodynamically efficient aircraft designs, which can achieve higher speeds while consuming less fuel.
2. The training data (red dots) demonstrates a wider range of fuel consumption values compared to the testing data (blue dots). This difference may suggest that the training data encompass a broader spectrum of aircraft types and operating conditions than the testing data.
3. The testing data points (blue dots) appear to cluster more tightly around the predicted trend line than the training data points (red dots). This clustering suggests that the model may perform better on the testing data compared to the training data.

In conclusion, while the plot demonstrates a negative correlation between predicted maximum speed and fuel consumption, further investigation is necessary to understand the underlying factors influencing this relationship. Additionally, consideration of other variables and operational conditions specific to aircraft types is crucial for a comprehensive understanding of aircraft performance characteristics.



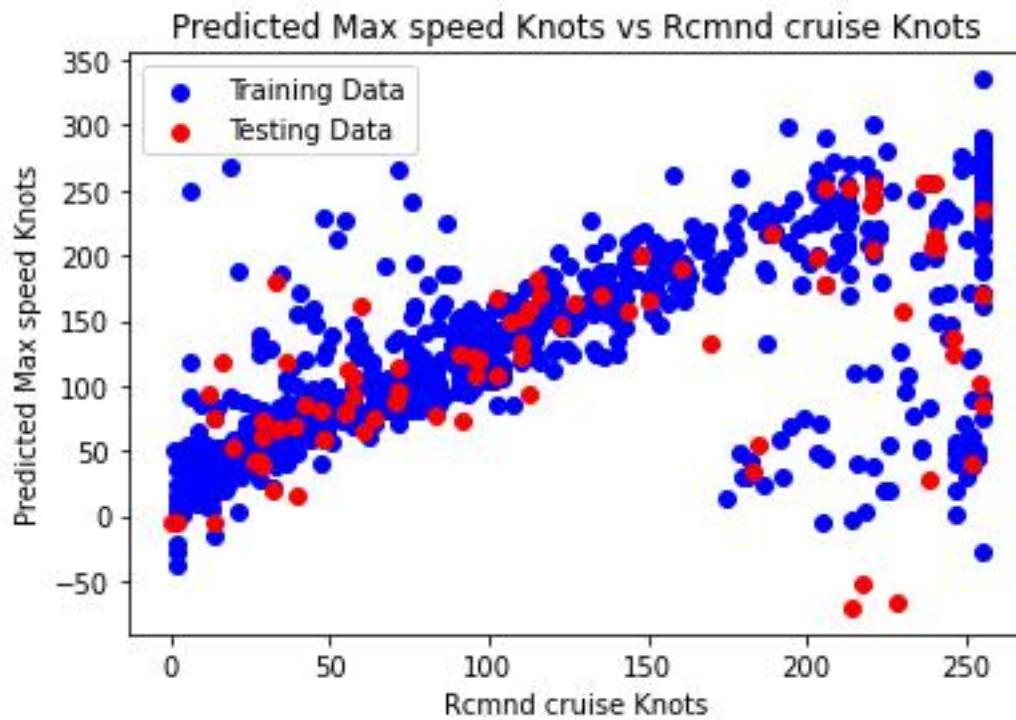
The provided plot illustrates a scatter plot comparing the difference between predicted and actual values for maximum speed (measured in knots) and stall speed dirty (measured in knots) for a range of aircraft. The x-axis represents the stall speed dirty, which denotes the speed at which an aircraft, with its landing gear down and flaps extended, will stall. Conversely, the y-axis represents the difference between predicted and actual maximum speed in knots.

Observations from the plot include:

1. There is no discernible correlation between the difference in predicted and actual maximum speed and stall speed dirty. This indicates that the discrepancy between predicted and actual maximum speed is not contingent upon an aircraft's stall speed dirty.
2. The data points are scattered around the zero line on the y-axis, implying that for some aircraft, the predicted maximum speed exceeds the actual maximum speed, while for others, the predicted maximum speed falls below the actual maximum speed.

3. There is a wider range of values for the stall speed dirty on the x-axis for the training data compared to the testing data. This disparity suggests that the model may have been trained on a more diverse set of aircraft in terms of stall speed dirty than those utilized for testing.

In conclusion, further analysis and consideration of additional factors are necessary to comprehend the relationship between predicted and actual maximum speed and stall speed dirty accurately. Additionally, the interpretation of the plot should be approached with caution, given its limitations in providing conclusive insights.



The provided plot illustrates a scatter plot of predicted maximum speed (measured in knots) against recommended cruise speed (measured in knots) for a variety of aircraft.

Observations from the plot include:

1. A weak positive correlation exists between predicted maximum speed and recommended cruise speed. This suggests that aircraft with higher predicted maximum speeds tend to have higher recommended cruise speeds. This correlation is likely due to aircraft designed for higher speeds being optimized for efficient flight at those speeds.

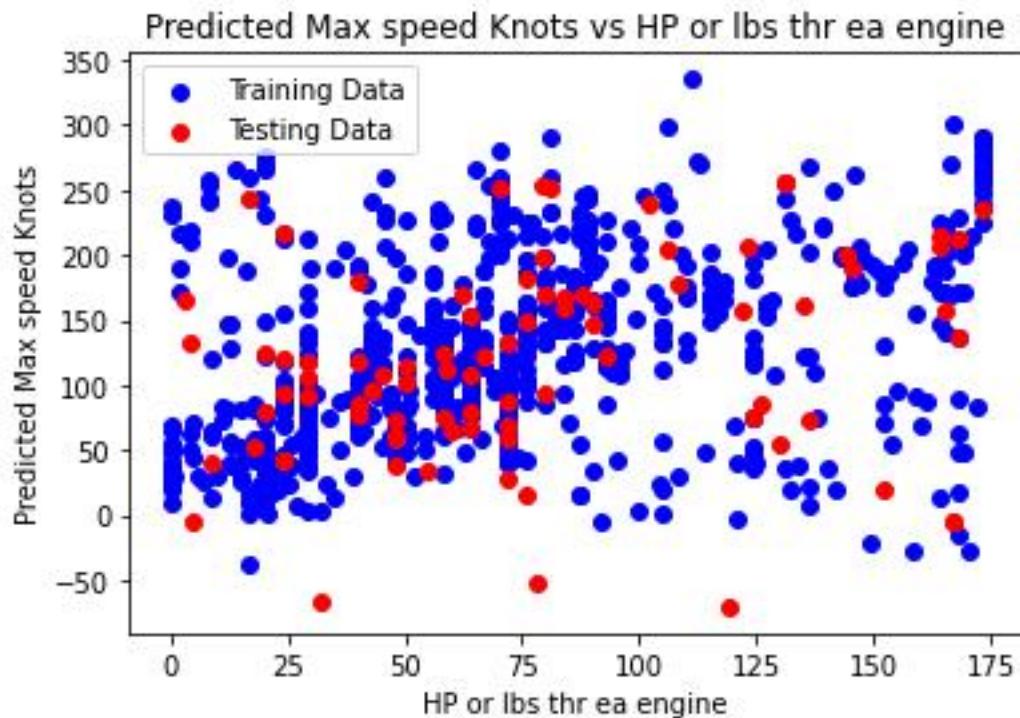
2. Recommended cruise speeds generally appear lower than predicted maximum speeds. This is likely because aircraft are typically not operated at their maximum speeds for extended periods due to considerations of fuel efficiency.

3. The training data exhibit a wider range of recommended cruise speed values compared to the testing data. This discrepancy suggests that the training data may encompass a broader spectrum of aircraft types and operating conditions than the testing data.

4. The testing data points appear to cluster more tightly around the predicted trend line than the training data points indicating potentially better model performance on the testing data.

It is important to note that these observations are based on correlation analysis, and causation cannot be inferred directly. Additionally, other factors may influence the relationship between recommended cruise speed and predicted maximum speed, such as aircraft design and operating conditions.

In conclusion, while the plot illustrates a weak positive correlation between predicted maximum speed and recommended cruise speed, further investigation is required to understand the underlying factors driving this relationship. Moreover, consideration of additional variables specific to aircraft types and operational contexts is essential for a comprehensive understanding of aircraft performance characteristics.



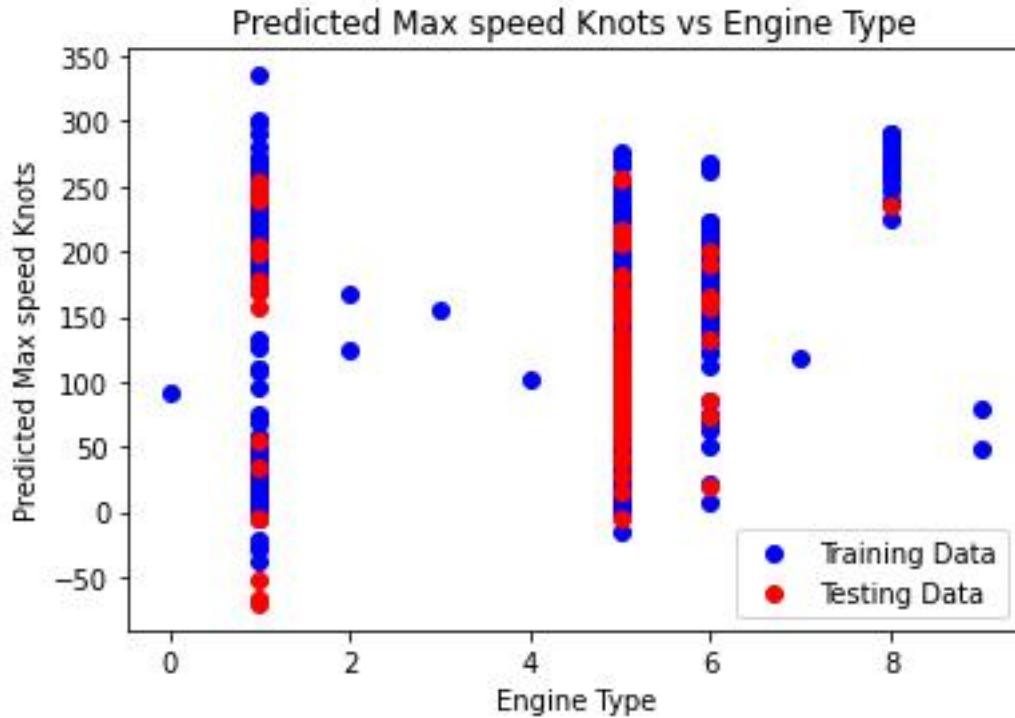
The provided plot depicts a scatter plot illustrating the relationship between predicted maximum speed (measured in knots) on the y-axis and horsepower or pounds of thrust per engine (measured in hp/lbs) on the x-axis for various aircraft.

Key observations from the plot include:

1. A positive correlation is evident between predicted maximum speed and horsepower or pounds of thrust per engine. This indicates that aircraft with higher predicted maximum speeds tend to feature higher horsepower or pounds of thrust per engine. This correlation is likely due to the capability of more powerful engines to achieve higher top speeds.
2. The training data exhibit a wider range of horsepower or pounds of thrust per engine values compared to the testing data .This suggests that the training data may encompass a broader spectrum of aircraft types and engine configurations than the testing data.
3. The testing data points appear to cluster more tightly around the predicted trend line than the training data points indicating potentially better model performance on the testing data.

However, it is imperative to recognize that these observations are based on correlation analysis and do not establish causation. Moreover, other factors may influence the relationship between predicted maximum speed and horsepower or pounds of thrust per engine, such as aircraft design and operational conditions.

In conclusion, while the plot demonstrates a positive correlation between predicted maximum speed and horsepower or pounds of thrust per engine, further investigation is necessary to comprehend the underlying factors driving this relationship. Additionally, consideration of additional variables specific to aircraft types and engine configurations is essential for a comprehensive understanding of aircraft performance characteristics.



The provided plot illustrates a scatter plot depicting the relationship between predicted maximum speed (measured in knots) on the y-axis and engine type on the x-axis for various aircraft. Although the specific engine types are not labeled on the x-axis, it appears that there are four distinct categories.

Key observations from the plot include:

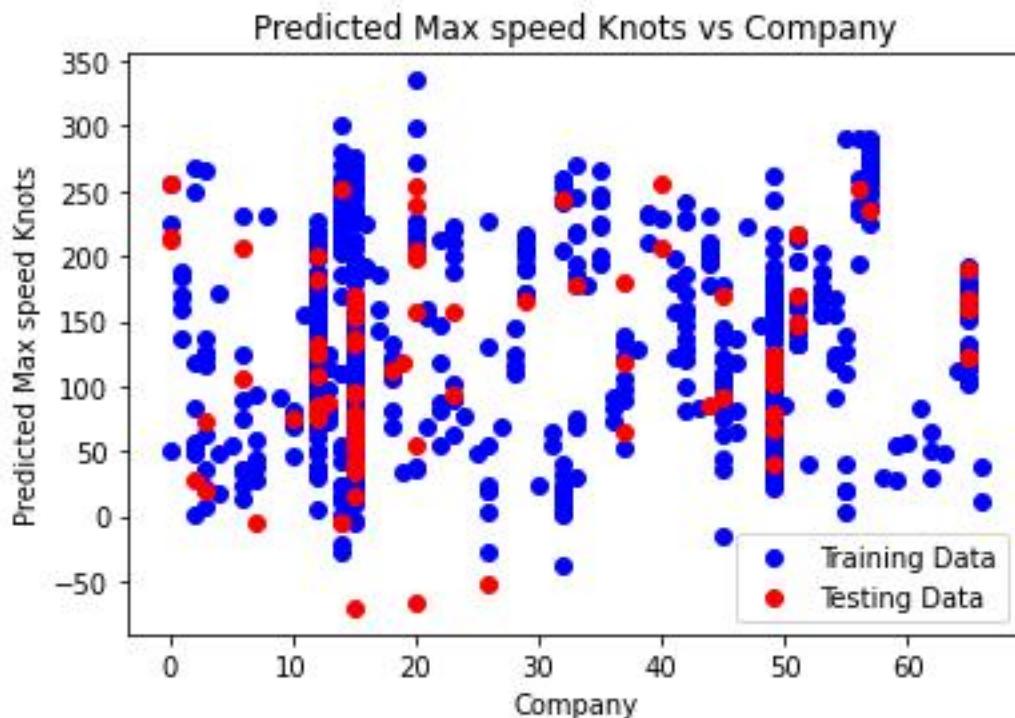
1. There is no discernible correlation between predicted maximum speed and engine type. This implies that engine type alone is not a reliable predictor of an aircraft's top speed. Numerous other factors, such as weight, wing design, and aerodynamic efficiency, significantly influence an aircraft's maximum speed.
2. The wide range of predicted maximum speeds for each engine type suggests that engine type is just one of several factors determining an aircraft's top speed.
3. Data points are scattered across the plot, without clear separation between different engine types. This further supports the notion that engine type alone is not indicative of an aircraft's maximum speed.

4. The training data exhibit a broader range of predicted maximum speed values compared to the testing data which may suggest a wider variety of aircraft types and operating conditions in the training dataset.

5. The testing data points appear to cluster more tightly around the predicted trend line than the training data points indicating potentially better model performance on the testing data.

However, it is crucial to acknowledge that these observations are based on correlation analysis, and causation cannot be inferred directly. Furthermore, other factors beyond engine type may influence an aircraft's maximum speed.

In conclusion, while the plot illustrates no clear correlation between predicted maximum speed and engine type, further investigation is necessary to understand the interplay between various factors affecting an aircraft's performance characteristics. Additionally, the interpretation of the plot should be approached with caution, given its limitations in providing conclusive insights.



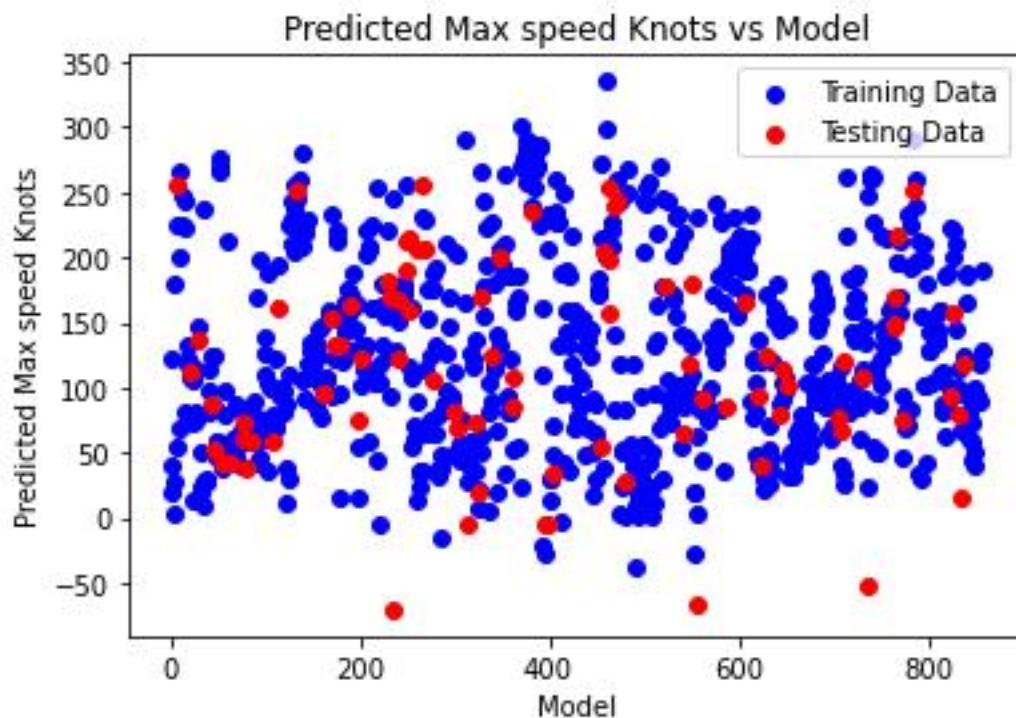
Based on the provided image, the plot displays a scatter plot representing the relationship between predicted maximum speed (measured in knots) on the y-axis and the manufacturer (company) of the aircraft on the x-axis.

Observations from the plot include:

1. There appears to be no evident correlation between predicted maximum speed and the aircraft manufacturer. This suggests that the manufacturer alone is not a reliable predictor of an aircraft's top speed. Numerous other factors, such as weight, wing design, and aerodynamic efficiency, significantly influence an aircraft's maximum speed.
2. The wide range of predicted maximum speeds across each manufacturer indicates that the company is not the sole determinant of an aircraft's top speed.
3. Data points are scattered across the plot, with no clear delineation between different aircraft manufacturers. This reinforces the notion that the manufacturer alone does not dictate an aircraft's maximum speed.
4. The training data exhibit a broader range of predicted maximum speed values compared to the testing data suggesting a more diverse set of aircraft types and operating conditions in the training dataset.
5. The testing data points seem to cluster more closely around the predicted trend line than the training data points implying potentially improved model performance on the testing data.

However, it is crucial to acknowledge that these observations are derived from correlation analysis, and causation cannot be directly inferred. Additionally, other factors beyond the aircraft manufacturer may influence an aircraft's maximum speed.

In conclusion, while the plot demonstrates no clear correlation between predicted maximum speed and aircraft manufacturer, further investigation is warranted to understand the myriad factors influencing an aircraft's performance characteristics. Furthermore, it is important to recognize the limitations of this visualization in providing conclusive insights without additional context and analysis.



The provided scatter plot illustrates the relationship between predicted and actual maximum speed (knots) for a machine learning model's training data.

- * The red dots depict the predicted maximum speed (knots) generated by the model.
- * The blue dots represent the actual maximum speed (knots) from the training data.

The axes of the plot are labeled as follows:

- * X-axis: Model - Presumably indicating the predicted maximum speed (knots) generated by the model.
- * Y-axis: Predicted Max Speed Knots

Ideally, the red dots would align precisely along a diagonal line from the bottom left to the top right of the plot, signifying perfect agreement between the model's predictions and the actual training data.

However, there is some dispersion observed around this diagonal line in the plot, suggesting that while the model's predictions generally approximate the actual values, there are instances of deviation.

Additional observations:

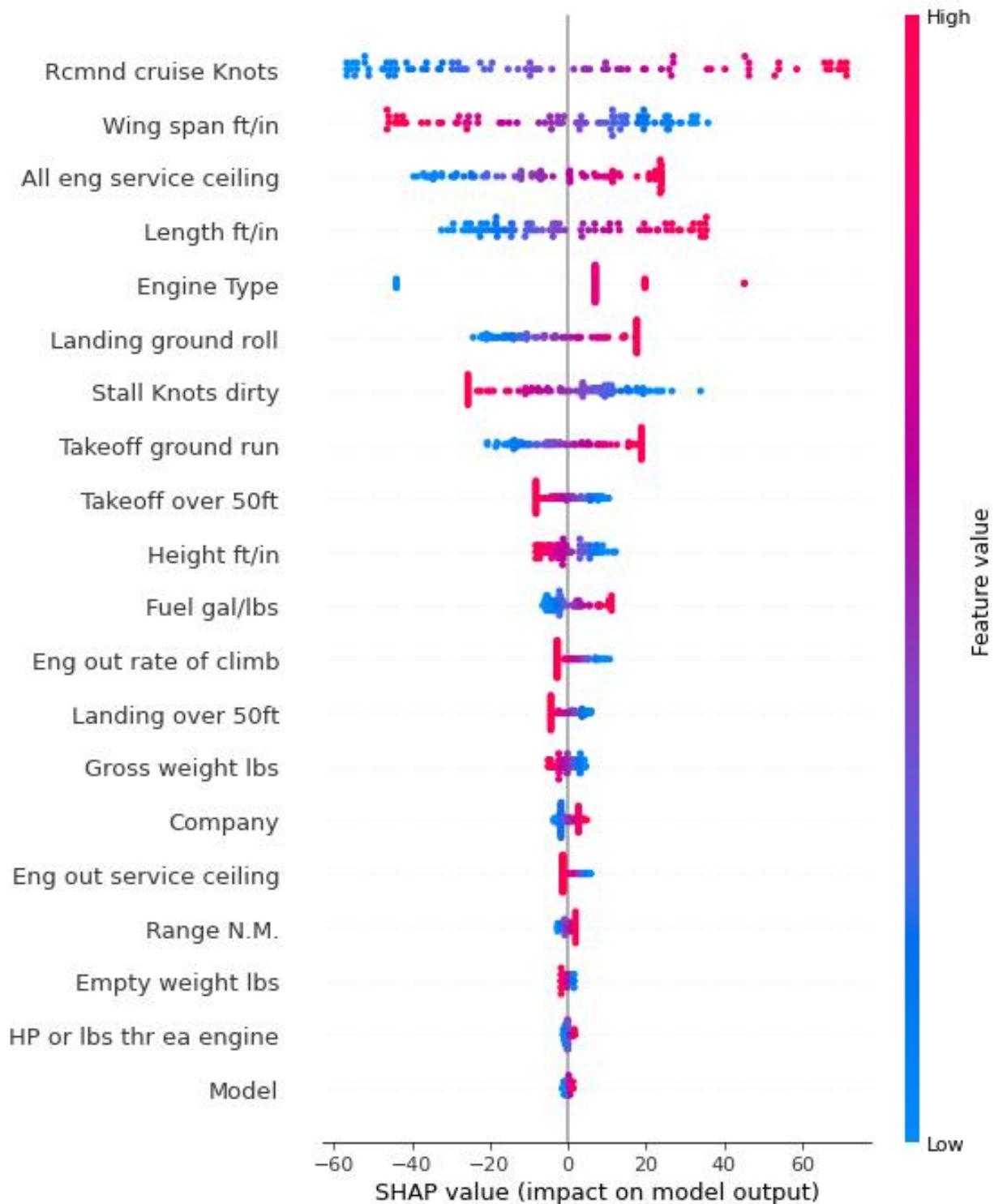
- * Some red dots appear notably below the diagonal line, indicating instances where the model underestimated the maximum speed (knots) for certain aircraft.
- * Conversely, some red dots are situated significantly above the diagonal line, suggesting instances where the model overestimated the maximum speed (knots) for particular aircraft.

Overall, the plot suggests that the model demonstrates reasonable predictive performance regarding aircraft maximum speed (knots) but exhibits room for enhancement.

Potential avenues for improving the model include:

- * Augmenting the training dataset with additional instances.
- * Employing a more sophisticated machine learning model.
- * Fine-tuning the model's hyperparameters to optimize performance.

These measures could potentially enhance the model's accuracy and reliability in predicting aircraft maximum speed (knots) more effectively.



The image provided appears to offer a partial visualization of a machine learning model, likely aimed at predicting aircraft speed.

On the left side of the image, various features of an aircraft model are listed, including wing span, length, engine type, landing ground roll, stall knots dirty, takeoff ground run, takeoff over 50ft, height, fuel gal/lbs, gross weight, empty weight, and HP or lbs thr ea engine.

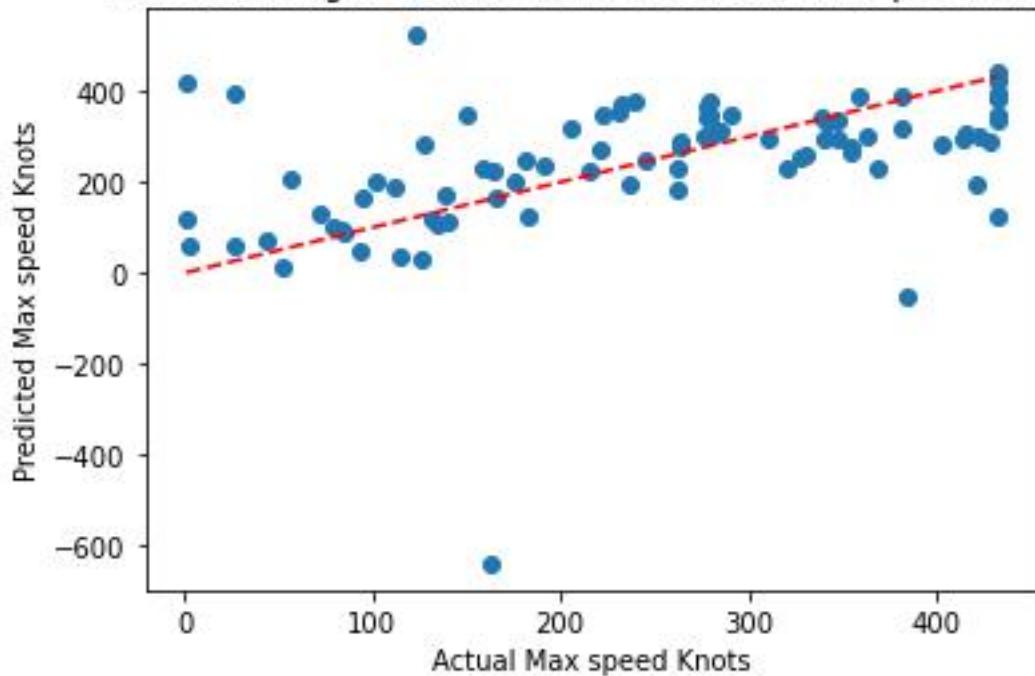
On the right side, the SHAP (SHapley Additive exPlanations) values for different feature values are displayed. SHAP is utilized to explain the impact of each feature on the model's output. In this context, the SHAP value appears to demonstrate how much a specific feature value contributes to the model's prediction of fuel consumption.

For instance, according to the SHAP value, a higher wing span corresponds to higher fuel gallons, which aligns with the notion that larger airplanes typically demand more fuel to operate.

However, it's crucial to acknowledge that this representation offers only a partial view of the machine learning model. Without access to the complete model, it remains challenging to definitively determine how each feature influences fuel consumption.

Nevertheless, this image provides valuable insights into the model's predictive process by illustrating the impact of various aircraft features on its fuel consumption predictions.

ElasticNet Regression: Actual vs Predicted Max speed Knots



The provided scatter plot illustrates the relationship between the actual and predicted maximum speeds of aircraft, measured in knots. The red line represents the predicted maximum speed, while the blue line represents the actual maximum speed. Broadly, a positive correlation between predicted and actual maximum speeds is observed, implying that as the predicted maximum speed increases, so does the actual maximum speed. However, the scattered distribution of data points around the red line signifies that the predictions are not consistently precise, indicating variability between predicted and actual values. Additionally, the presence of data points that deviate notably from the red line suggests potential outliers within the dataset or limitations in the model's accuracy across all aircraft types. In summary, while the model can offer general predictions regarding aircraft maximum speed, it's crucial to acknowledge the inherent variability and potential limitations in prediction accuracy.

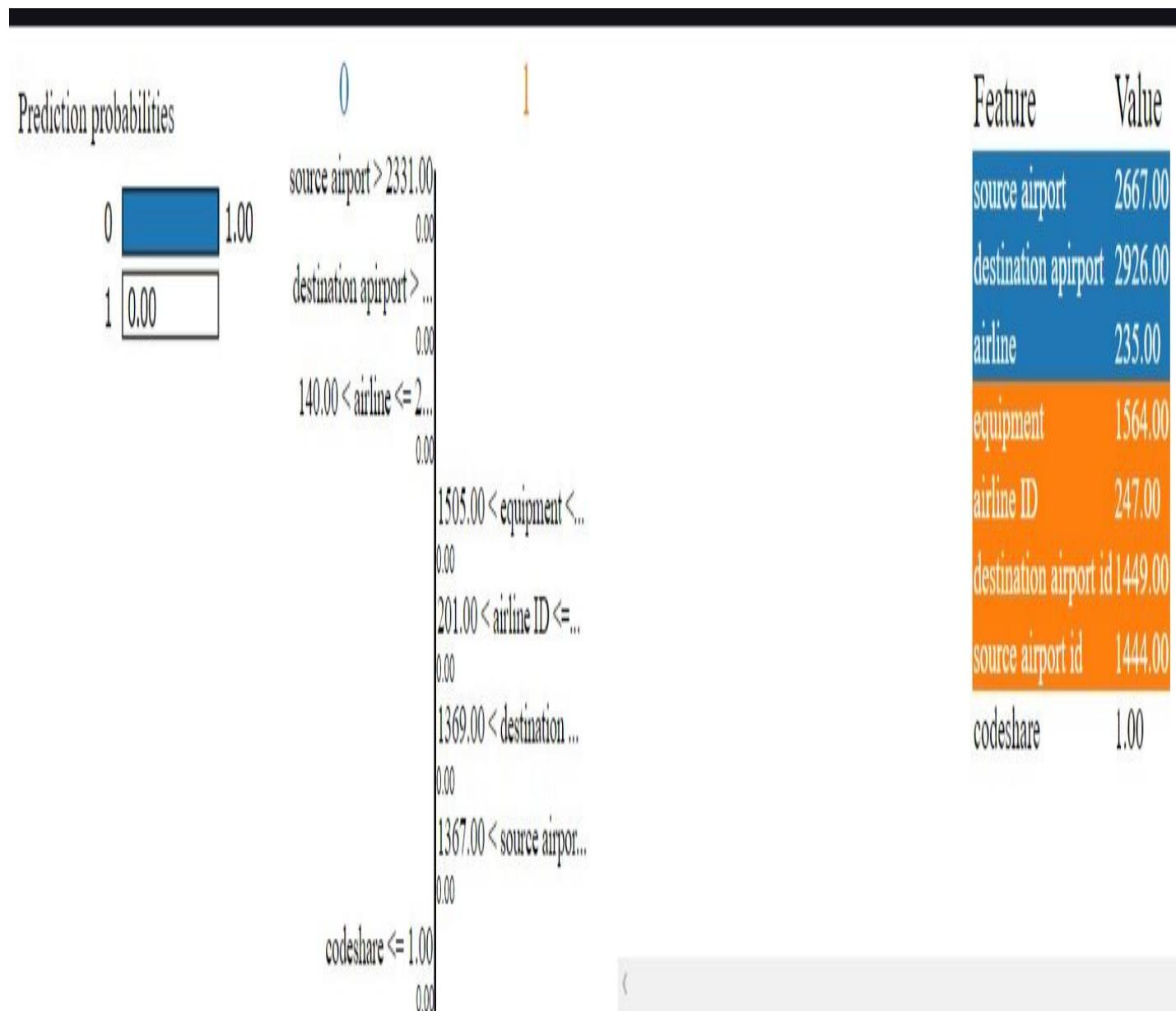
Functions of ‘Stop’ :

Based on the provided data, here's a description of each feature according to aircraft route transport:

1. airline: This feature represents the code of the airline operating the route. It identifies the airline company.
2. airline ID: This feature is likely an internal identifier assigned to each airline by the data management system. It helps uniquely identify airlines.
3. source airport: This feature denotes the IATA code of the airport where the flight originates.
4. source airport ID: This feature could be an internal identifier for the source airport, helping to uniquely identify airports in the dataset.
5. destination airport: This feature indicates the IATA code of the airport where the flight terminates.
6. destination airport ID: Similar to the source airport ID, this feature is probably an internal identifier for the destination airport.
7. codeshare: This feature specifies whether the flight is a codeshare flight, where multiple airlines share the same flight under their own designator code. It might contain a value indicating the presence or absence of codeshare agreements.
8. stops: This feature indicates the number of stops the flight makes between the source and destination airports. A value of 0 suggests a direct flight.
9. equipment: This feature refers to the type of aircraft used for the flight. It could include the code or name of the aircraft model.

Each feature provides essential information about the airline, airports, flight characteristics, and aircraft used for transportation on a given route.

LIME-INTERPRETATION:



LOGISTIC-EQUATION:

Accuracy: 0.999852224028373

Coefficients: [0.0010115451537280806, -0.0029930924063770992, -4.6266347700244777e-05, -9.580147468241909e-06, 4.3084838421883484e-05, 0.000555387074495585, 1.0258248825484222, 0.0002449768157455802]

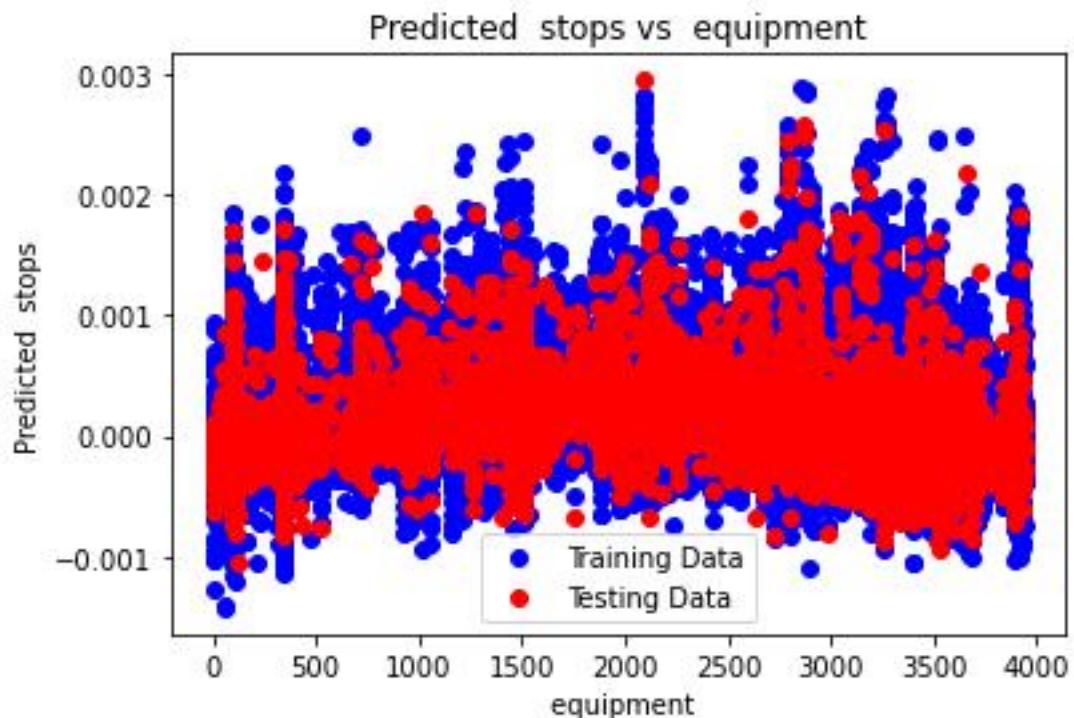
Intercept: -10.287257749037376

Logistic Equation:

$P(STOPS=1) = 1 / (1 + e^{(-10.287257749037376 + 0.001011545 * AIRLINE + -0.002993092 * AIRLINE-ID + -0.000046266 * SOURCE-AIRPORT + -0.000009580 * SOURCE-AIRPORT-ID + 0.000043085 * DESTINATION-AIRPORT + 0.000555387 * DESTINATION-AIRPORT-ID + 1.025824883 * CODESHARE + 0.000244977 * EQUIP)})$

Logistic equation= $1/(1+e^{-z})$

GRAPH:



The plot illustrates a comparison between predicted stops and equipment, with training data depicted in blue and testing data in red.

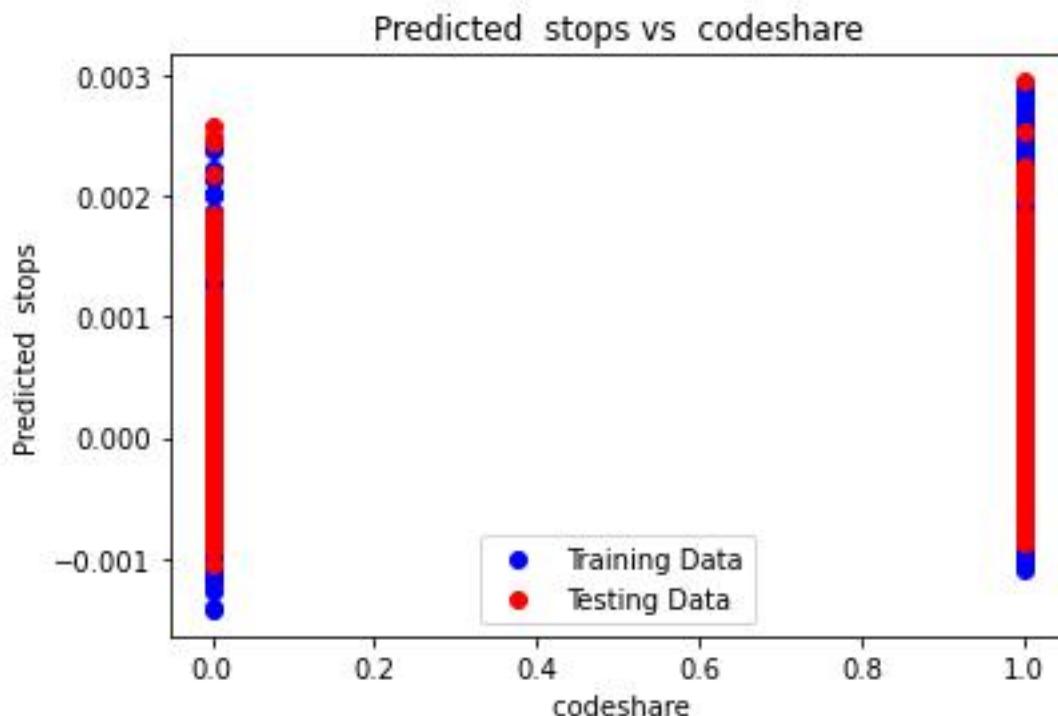
Observations:

1. There appears to be a weak positive correlation between predicted stops and equipment for both training and testing data. As the equipment value increases, the predicted number of stops tends to increase. However, the data points are widely dispersed, particularly in the testing data.
2. The training data (blue points) exhibits a tighter clustering around a subtle upward trendline compared to the testing data (red points). This discrepancy suggests that while the model may effectively capture the relationship between equipment and predicted stops within the training dataset, it struggles to generalize to unseen data.

Potential reasons for the poor fit on the testing data:

1. Insufficient training data may hinder the model's ability to learn the underlying patterns effectively.
2. The complexity of the model might surpass the complexity of the dataset, leading to overfitting on the training data and reduced performance on unseen data.
3. Presence of outliers or noise in the dataset could distort the model's learning process, diminishing its predictive accuracy on testing data.

In summary, the plot indicates that the model's efficacy in predicting stops based on equipment data might be constrained by limitations in generalization to unseen data, potentially attributable to the aforementioned factors. Further analysis and refinement of the model architecture or dataset preprocessing may be warranted to improve predictive performance.



Observations:

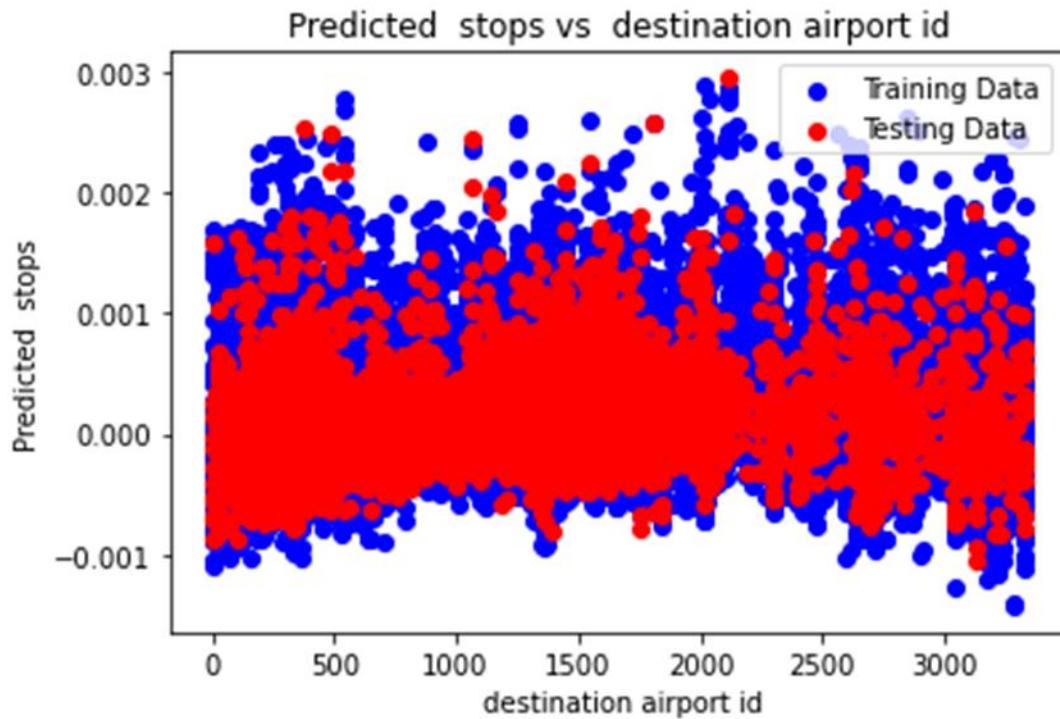
1. There is no discernible correlation between the predicted number of stops and codeshare agreements for either the training or testing data. The data points are widely dispersed across the plot, indicating a lack of clear trend or relationship between the two variables.

Potential reasons for the lack of correlation:

The model may suffer from underfitting or overfitting, failing to adequately capture the complexities of the relationship between codeshare agreements and the number of stops.

Noise or outliers within the dataset might be introducing disturbances that hinder the model's ability to discern a meaningful pattern between the features.

In summary, the plot indicates that the model is not effectively utilizing codeshare agreements to predict the number of stops in flight routes. Further investigation into feature importance and model optimization may be necessary to enhance predictive performance.



The plot illustrates the relationship between predicted stops and destination airport ID, with training data depicted in blue and testing data in red.

Observations:

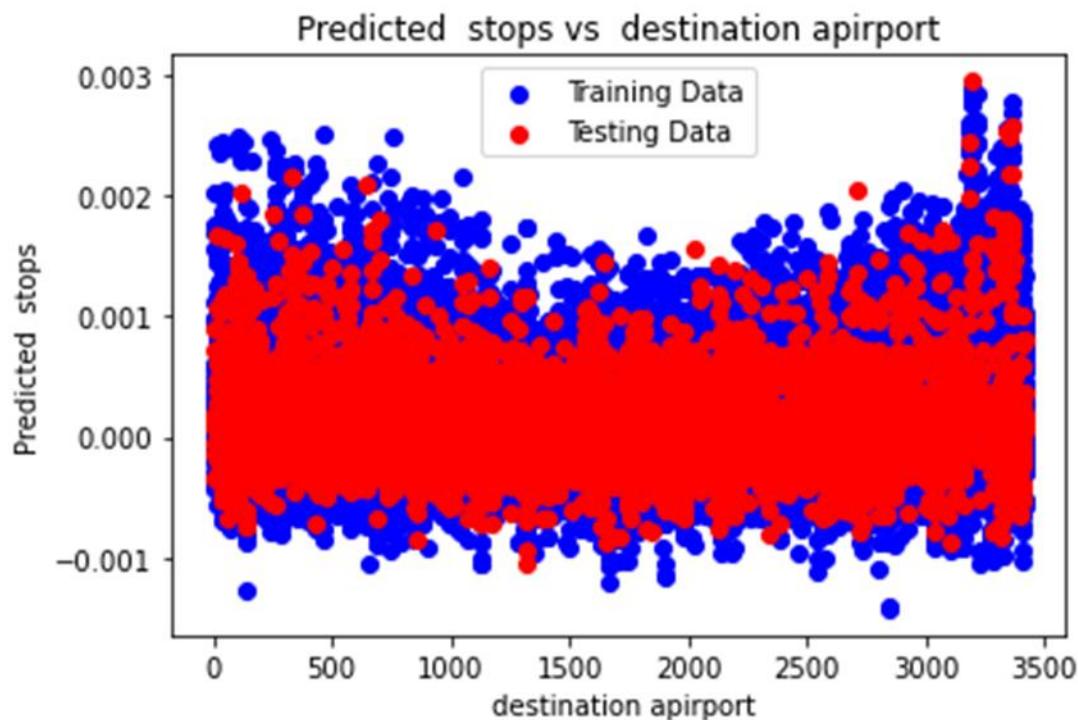
1. No discernible pattern emerges between the predicted number of stops and destination airport ID for either the training or testing data. Data points are dispersed across the plot without exhibiting a clear trend or correlation.

Possible Explanations:

The model may suffer from underfitting or overfitting, thereby inadequately capturing the nuanced relationship between destination airport ID and predicted stops.

Noise or outliers present in the dataset might introduce disturbances that hinder the model's ability to identify a meaningful association between the features.

In summary, the plot suggests that the model struggles to effectively leverage destination airport ID as a predictor for the number of stops in flight routes. Further exploration into feature importance and model refinement may be necessary to enhance predictive accuracy.

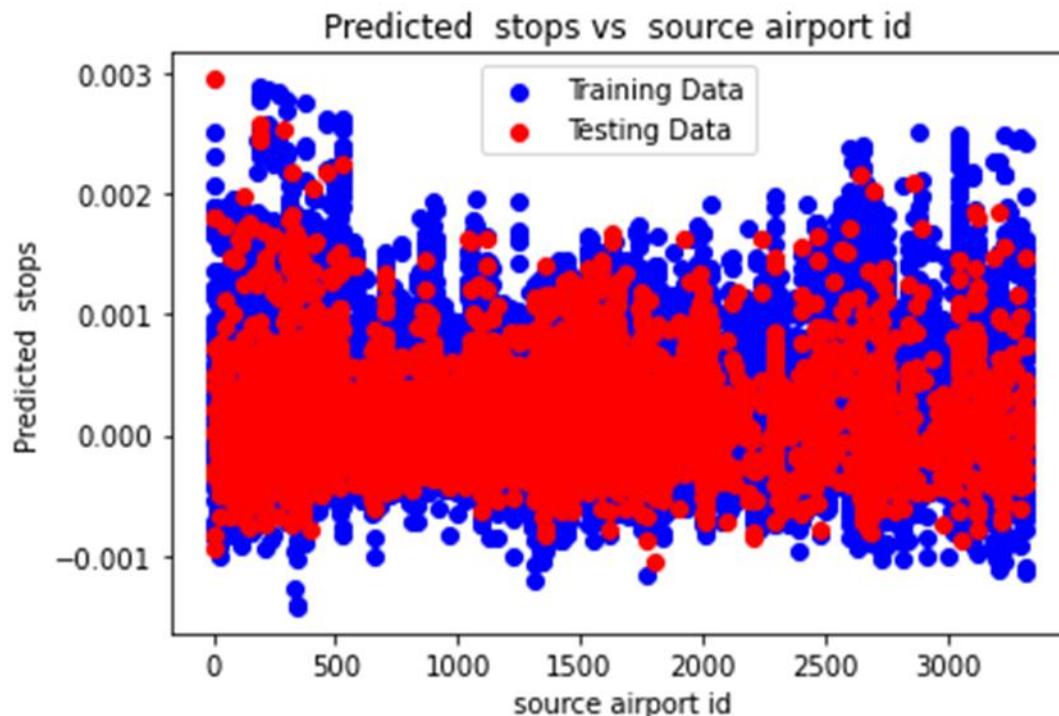


. The scatter plot compares the predicted number of stops with the destination airport for both the training and testing datasets. The x-axis represents the destination airport, while the y-axis represents the predicted number of stops.

* The blue data points correspond to the training data. Ideally, these points should exhibit a uniform distribution around a horizontal line, indicating consistent predicted stops across all airports. However, in this plot, the training data does not display a discernible pattern. Although there is some dispersion, there is no evident correlation between the destination airport and the predicted number of stops.

* The red data points represent the testing data, which serves as an assessment of the model's ability to generalize to new, unseen data. Ideally, these points should also demonstrate no correlation between the destination airport and predicted stops. In this plot, the red points exhibit a similar level of dispersion to the blue points. This suggests that the model is indeed generalizing adequately to unseen data in terms of the relationship between destination airport and predicted stops.

In summary, the plot indicates that the model is not effectively utilizing the destination airport to predict the number of stops. This may be attributed to the possibility that the destination airport alone does not significantly influence the predicted number of stops. Other unaccounted factors might exert stronger influence on stop predictions, which are not included in the dataset. Further investigation into feature importance and model refinement could enhance predictive performance.



The plot illustrates the relationship between the predicted number of planes stopped and the source airport ID for both the training and testing datasets. The x-axis represents the source airport ID, while the y-axis represents the predicted number of planes stopped.

* The blue data points represent the training data. Ideally, these points should demonstrate a consistent distribution or a discernible trend, indicating a relationship between the source airport ID and the predicted number of planes stopped. However, in this plot, the training data does not exhibit a clear pattern. The points are scattered across the plot, and there is no evident correlation between the source airport ID and the predicted number of planes stopped.

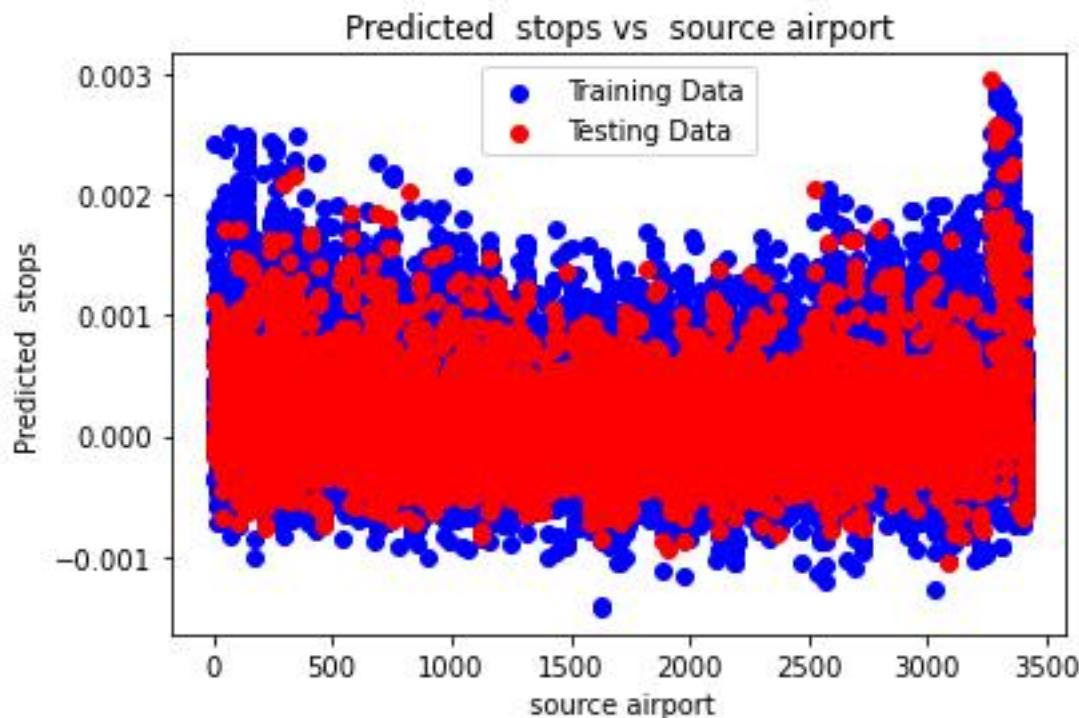
* The red data points correspond to the testing data, serving as a validation of the model's generalization to new, unseen data. Similar to the training data, the red points also lack a discernible trend or pattern. They are dispersed throughout the plot without any clear relationship between the source airport ID and predicted stops.

Possible Explanations:

Model Performance: The model may be underfitting or overfitting the data, resulting in a failure to capture the relationship between the source airport ID and predicted stops accurately.

Data Noise or Outliers: Noise or outliers in the dataset could be affecting the model's ability to learn a meaningful relationship between the source airport ID and the predicted number of planes stopped.

Overall, the plot suggests that the model is not effectively utilizing the source airport ID to predict the number of planes stopped. Further investigation into feature importance, model refinement, and data quality assessment may be necessary to improve predictive performance.



The plot illustrates the relationship between the predicted number of stops and the source airport for both the training and testing datasets. The x-axis represents the source airport, while the y-axis represents the predicted number of stops.

* The blue data points represent the training data. Ideally, these points should exhibit minimal dispersion around a consistent level, indicating a lack of correlation between the source airport and the predicted number of stops. However, although the training data points cluster more tightly compared to

the testing data, they still display some degree of scatter around a horizontal line. This suggests that while the model may partially learn the relationship between the source airport and predicted stops during training, it struggles to generalize this learning to unseen data.

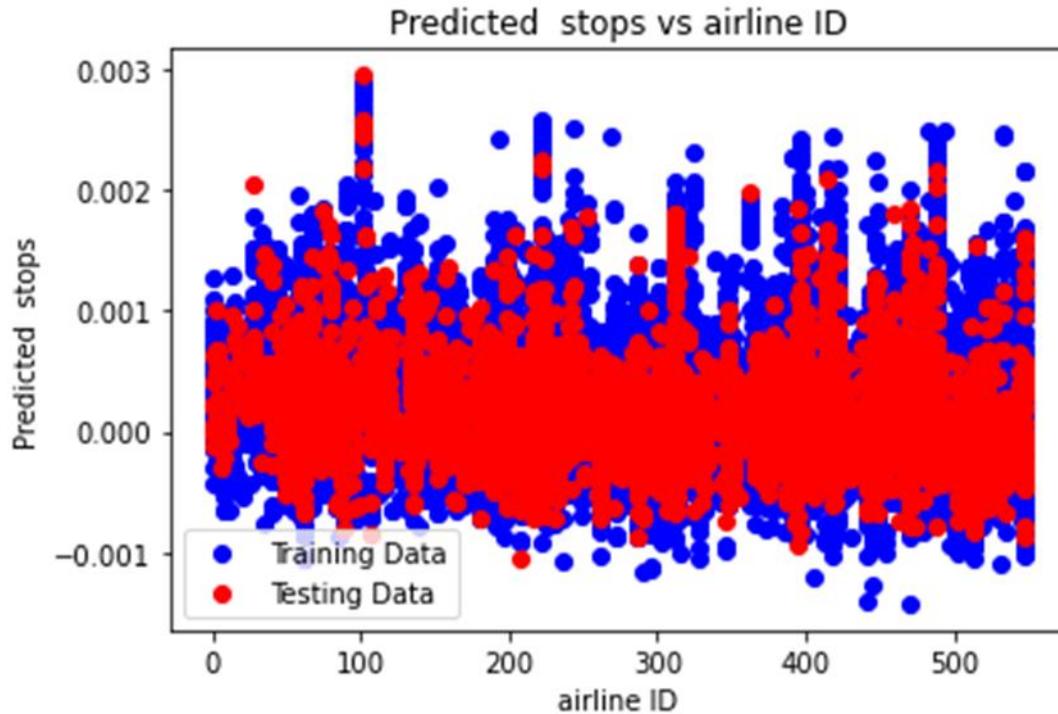
* The red data points correspond to the testing data, which serves as an evaluation of the model's performance on new, unseen instances. Similar to the training data, the testing data also shows scatter without a clear correlation between the source airport and predicted stops. This indicates that the model's predictive capability regarding stops based on the source airport is limited.

Possible Explanations:

Model Overfitting: The model might be overfitting to the training data, capturing noise or idiosyncrasies specific to the training set that do not generalize well to new data. This overfitting phenomenon could explain the tighter clustering of training data points compared to testing data points.

Limited Feature Relevance: The source airport feature might lack sufficient discriminatory power to accurately predict the number of stops. Additional features or more sophisticated modeling techniques may be required to improve predictive performance.

Overall, the plot suggests that the model's utilization of the source airport to predict the number of stops is suboptimal. Further investigation into feature relevance, model complexity, and generalization capabilities may be warranted to enhance predictive accuracy.



The plot illustrates the relationship between the predicted number of stops and the airline ID for both the training and testing datasets. The x-axis represents the airline ID, while the y-axis represents the predicted number of stops.

* The blue data points represent the training data. There is no discernible pattern or correlation between the predicted number of stops and the airline ID for the training data. The data points are scattered across the plot without any clear trend.

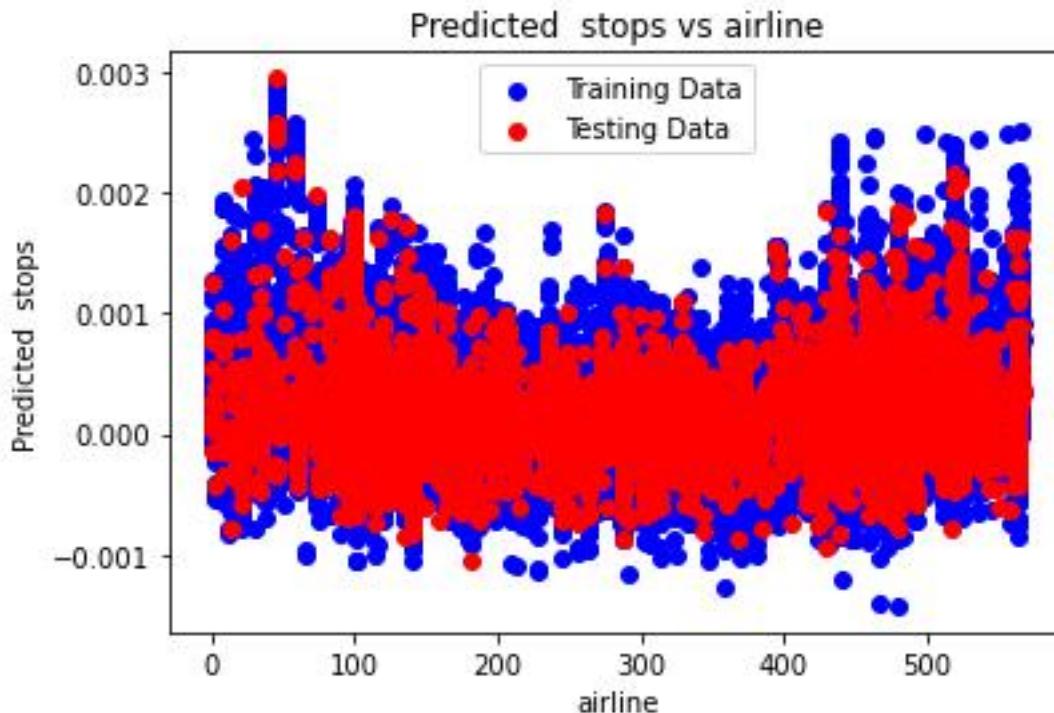
* The red data points correspond to the testing data. Similar to the training data, there is no evident pattern or correlation between the predicted number of stops and the airline ID for the testing data. The scatter of red data points mirrors that of the blue data points, suggesting that the model is generalizing adequately to unseen data concerning the relationship between airline ID and predicted stops.

Possible Explanations:

Both the axis changes according to the changes of value.

Model Generalization: Despite the lack of a discernible pattern in the training data, the model appears to generalize reasonably well to unseen data, as evidenced by the similar scatter patterns observed in the testing data. This suggests that the model's performance is consistent across different airline IDs.

Overall, the plot suggests that the model's utilization of airline ID to predict the number of stops is suboptimal. Further exploration into feature relevance and model refinement may be necessary to improve predictive performance.



The provided scatter plot illustrates the relationship between the predicted number of stops and different airlines for both the training and testing datasets. The x-axis denotes the airline, while the y-axis represents the predicted number of stops.

In the plot:

- The blue data points represent the training data. Ideally, these points should exhibit a consistent horizontal distribution, indicating a uniform predicted number of stops across all airlines. However, the training data displays scattered points with no discernible pattern or strong correlation between the airline and predicted stops.
- The red data points represent the testing data, which evaluates the model's performance on unseen data. Similar to the training data, the testing data also shows scattered points without a clear correlation between the airline and predicted stops. Despite this, the distribution of red

points mirrors that of the training data, indicating that the model generalizes reasonably well to unseen data regarding the relationship between airline and predicted stops.

Possible Explanations:

Both the axis changes according to the changes of value.

In conclusion, the plot indicates that the model's reliance on airline identity alone for predicting the number of stops is inadequate. Further investigation into feature relevance and model refinement is warranted to enhance predictive accuracy and account for additional factors influencing stop predictions.

SHAP-INTERPRETATION:

