**Dataset Overview Report**

**1. Road Surface Condition Dataset**

* **Total Rows:** 179,683
* **Number of Columns:** 4
* **Columns and Description:**
  + **ACCIDENT\_NO:** Unique identifier for each accident.
  + **SURFACE\_COND:** Encoded value representing road surface condition.
  + **SURFACE\_COND\_DESC:** Description of the road surface condition.
  + **SURFACE\_COND\_SEQ:** Sequence number for surface condition reporting.

**2. Atmospheric Condition Dataset**

* **Total Rows:** 180,999
* **Number of Columns:** 4
* **Columns and Description:**
  + **ACCIDENT\_NO:** Unique identifier for each accident.
  + **ATMOSPH\_COND:** Encoded value representing atmospheric conditions.
  + **ATMOSPH\_COND\_SEQ:** Sequence number for atmospheric condition reporting.
  + **ATMOSPH\_COND\_DESC:** Description of the atmospheric condition.

**3. Sub-DCA Dataset**

* **Total Rows:** 256,533
* **Number of Columns:** 4
* **Columns and Description:**
  + **ACCIDENT\_NO:** Unique identifier for each accident.
  + **SUB\_DCA\_CODE:** Encoded value representing detailed cause analysis.
  + **SUB\_DCA\_SEQ:** Sequence number for sub-DCA analysis.
  + **SUB\_DCA\_DESC:** Description of the detailed cause analysis.

**4. Accident Location Dataset**

* **Total Rows:** 178,695
* **Number of Columns:** 9
* **Columns and Description:**
  + **ACCIDENT\_NO:** Unique identifier for each accident.
  + **NODE\_ID:** Identifier for the accident location node.
  + **ROAD\_ROUTE\_1:** Primary road route identifier.
  + **ROAD\_NAME:** Name of the road where the accident occurred.
  + **ROAD\_TYPE:** Type of road.
  + **ROAD\_NAME\_INT:** Name of intersecting road.
  + **ROAD\_TYPE\_INT:** Type of intersecting road.
  + **DISTANCE\_LOCATION:** Distance from intersection.
  + **DISTANCE\_LOCATION:** Direction from intersection.

**5. Node Dataset**

* **Total Rows:** 181,434
* **Number of Columns:** 11
* **Columns and Description:**
  + **ACCIDENT\_NO:** Unique identifier for each accident.
  + **NODE\_ID:** Identifier for the node where the accident occurred.
  + **NODE\_TYPE:** Type of node (e.g., intersection, road segment).
  + **AMG\_X:** X coordinate of the accident location.
  + **AMG\_Y:** Y coordinate of the accident location.
  + **LGA\_NAME:** Local Government Area of the accident location.
  + **LGA\_NAME\_ALL**
  + **LATITUDE:** Latitude of the accident location.
  + **LONGITUDE:** Longitude of the accident location.
  + **POSTCODE\_CRASH:**

**6. Vehicle Dataset**

* **Total Rows:** 325,889
* **Number of Columns:** 37
* **Columns and Description:**
  + **ACCIDENT\_NO:** Unique identifier for each accident.
  + **VEHICLE\_ID:** Unique identifier for each vehicle involved.
  + **VEHICLE\_YEAR\_MANUF:** Year of vehicle manufacture.
  + **VEHICLE\_DCA\_CODE:** Encoded value representing detailed crash analysis for the vehicle.
  + **INITIAL\_DIRECTION:** Initial direction of travel.
  + **ROAD\_SURFACE\_TYPE:** Type of road surface.
  + **ROAD\_SURFACE\_TYPE\_DESC:** Description of the road surface.
  + **REG\_STATE:** State of vehicle registration.
  + **VEHICLE\_BODY\_STYLE:** Body style of the vehicle.
  + **VEHICLE\_MAKE:** Manufacturer of the vehicle.
  + **VEHICLE\_MODEL:** Model of the vehicle.
  + **VEHICLE\_POWER:** Power output of the vehicle.
  + **VEHICLE\_TYPE:** Type of vehicle.
  + **VEHICLE\_TYPE\_DESC:** Description of vehicle type.
  + **VEHICLE\_WEIGHT:** Weight of the vehicle.
  + **CONSTRUCTION\_TYPE:** Construction type of the vehicle.
  + **FUEL\_TYPE:** Fuel type of the vehicle.
  + **NO\_OF\_WHEELS:** Number of wheels on the vehicle.
  + **NO\_OF\_CYLINDERS:** Number of engine cylinders.
  + **SEATING\_CAPACITY:** Seating capacity of the vehicle.
  + **TARE\_WEIGHT:** Unladen weight of the vehicle.
  + **TOTAL\_NO\_OCCUPANTS:** Total number of occupants.
  + **CARRY\_CAPACITY:** Carrying capacity of the vehicle.
  + **CUBIC\_CAPACITY:** Engine cubic capacity.
  + **FINAL\_DIRECTION:** Final direction of travel.
  + **DRIVER\_INTENT:** Driver’s intended maneuver.
  + **VEHICLE\_MOVEMENT:** Movement of the vehicle before the accident.
  + **TRAILER\_TYPE:** Type of trailer attached (if any).
  + **VEHICLE\_COLOUR\_1:** Primary color of the vehicle.
  + **VEHICLE\_COLOUR\_2:** Secondary color of the vehicle.
  + **CAUGHT\_FIRE:** Whether the vehicle caught fire.
  + **INITIAL\_IMPACT:** Point of initial impact.
  + **LAMPS:** Status of vehicle lamps.
  + **LEVEL\_OF\_DAMAGE:** Extent of damage to the vehicle.
  + **TOWED\_AWAY\_FLAG:** Whether the vehicle was towed away.
  + **TRAFFIC\_CONTROL:** Type of traffic control at the scene.
  + **TRAFFIC\_CONTROL\_DESC:** Description of the traffic control.

**7. Person Dataset**

* **Total Rows:** 417,616
* **Number of Columns:** 14
* **Columns and Descriptions**
  + ACCIDENT\_NO: Unique identifier for each accident.
  + PERSON\_ID: Unique identifier for each individual involved in the accident.
  + VEHICLE\_ID: Identifier for the vehicle the person was associated with.
  + SEX: Gender of the person.
  + AGE\_GROUP: Categorized age group of the individual.
  + INJ\_LEVEL: Encoded value representing the level of injury sustained.
  + INJ\_LEVEL\_DESC: Description of the injury level (e.g., fatal, serious injury, minor injury, no injury).
  + SEATING\_POSITION: Seating position within the vehicle.
  + HELMET\_BELT\_WORN: Indicator of whether a helmet or seatbelt was worn.
  + ROAD\_USER\_TYPE: Encoded value representing the role of the person in the accident (e.g., driver, passenger, pedestrian).
  + ROAD\_USER\_TYPE\_DESC: Description of the road user type.
  + LICENCE\_STATE: State in which the person’s driver’s license was issued.
  + TAKEN\_HOSPITAL: Indicator of whether the person was taken to a hospital.
  + EJECTED\_CODE: Indicator of whether the person was ejected from the vehicle.

**8. Accident Dataset**

* **Total Rows:** 178,695
* **Number of Columns:** 23
* **Columns and Descriptions**
  + ACCIDENT\_NO: Unique identifier for each accident.
  + ACCIDENT\_DATE: Date when the accident occurred.
  + ACCIDENT\_TIME: Time of the accident.
  + ACCIDENT\_TYPE: Encoded value representing the type of accident.
  + ACCIDENT\_TYPE\_DESC: Description of the type of accident.
  + DAY\_OF\_WEEK: Encoded value representing the day of the week.
  + DAY\_WEEK\_DESC: Description of the day of the week.
  + DCA\_CODE: Encoded value representing the detailed crash analysis category.
  + DCA\_DESC: Description of the detailed crash analysis category.
  + LIGHT\_CONDITION: Lighting condition at the time of the accident.
  + NODE\_ID: Identifier for the accident location node.
  + NO\_OF\_VEHICLES: Number of vehicles involved in the accident.
  + NO\_PERSONS\_KILLED: Number of fatalities recorded in the accident.
  + NO\_PERSONS\_INJ\_2: Number of people sustaining serious injuries.
  + NO\_PERSONS\_INJ\_3: Number of people sustaining minor injuries.
  + NO\_PERSONS\_NOT\_INJ: Number of people involved in the accident who were not injured.
  + NO\_PERSONS: Total number of people involved in the accident.
  + POLICE\_ATTEND: Indicator of whether police attended the accident scene.
  + ROAD\_GEOMETRY: Encoded value representing the type of road geometry.
  + ROAD\_GEOMETRY\_DESC: Description of the road geometry.
  + SEVERITY: Severity level of the accident.
  + SPEED\_ZONE: Speed limit in the accident area.
  + RMA: Encoded value representing road management authority classification.

**9. Accident Event Dataset**

* **Total Rows:** 295,929
* **Number of Columns:** 13
* **Columns and Descriptions**
* **ACCIDENT\_NO:** Unique identifier for each accident.
* **EVENT\_SEQ\_NO:** Sequence number of the event in the accident.
* **EVENT\_TYPE:** Encoded value representing the type of event.
* **EVENT\_TYPE\_DESC:** Description of the type of event.
* **VEHICLE\_1\_ID:** Identifier for the first vehicle involved in the event.
* **VEHICLE\_1\_COLL\_PT:** Encoded value representing the collision point on the first vehicle.
* **VEHICLE 1 COLL PT DESC:** Description of the collision point on the first vehicle.
* **VEHICLE\_2\_ID:** Identifier for the second vehicle involved in the event.
* **VEHICLE\_2\_COLL\_PT:** Encoded value representing the collision point on the second vehicle.
* **VEHICLE 2 COLL PT DESC:** Description of the collision point on the second vehicle.
* **PERSON\_ID:** Identifier for the person involved in the event (if applicable).
* **OBJECT\_TYPE:** Encoded value representing the type of object involved in the accident (if any).
* **OBJECT\_TYPE\_DESC:** Description of the object type involved in the accident.