## Attributes Required in the Dataset :

1. Timestamp: YYYY-MM-DD HH:MM:SS ✔️ q
2. Vehicle ID: TN01BB0612
3. Latitude: Decimal degrees 🤡(at last )
4. Longitude: Decimal degrees 🤡 (at last)
5. Acceleration\_X (rotation\_rate): Meters per second squared (m/s^2) ✔️q
6. Acceleration\_Y: Meters per second squared (m/s^2) ✔️q
7. Acceleration\_Z: Meters per second squared (m/s^2) ✔️q
8. Angular\_Velocity\_X: Degrees per second (°/s) ✔️q
9. Angular\_Velocity\_Y: Degrees per second (°/s) ✔️q
10. Angular\_Velocity\_Z: Degrees per second (°/s) ✔️q
11. Wheel\_Speed: Kilometers per hour (km/h) ✔️q
12. Vehicle\_Speed: Kilometers per hour (km/h) ✔️q
13. Steering\_Angle (value): Degrees (°) ✔️q
14. Steering\_Speed ✔️q
15. Vehicle Interior Pressure\_Change: Pascal (Pa)
16. Collision\_Detection: Boolean (0 or 1)
17. GPS\_Fix: Boolean (0 or 1) 1
18. Braking\_Pressure: Pascal (Pa) ✔️q
19. Throttle\_Pressure ✔️q
20. Airbag\_Deployed\_Status: Boolean (0 or 1)
21. Seatbelt\_Status: Boolean (0 or 1) 1
22. Weather Condition: Categorical (e.g., Pleasant, Humid, Hot, Cold, Rainy, Snowy, Foggy )
23. Visibility: Categorical (e.g., Clear, Foggy, Rainy)
24. Occupancy\_Status: Integer (number of occupants)
25. RPM (Revolutions Per Minute): Integer or floating-point number (mean\_effective\_torque) q
26. Accident Severity ( 0 - 4 )

**Pending:**

1. RPM ✔️
2. Latitude ✔️
3. Longitude ✔️
4. Interior Pressure ✔️
5. Accident Severity

**Aim is to Calculate :**

1. Severity: (e.g., Minor, Moderate, Severe)
2. Nearest Hospital based on GPS Data
3. Respective Police Station

### **Rough :**

DateTime

Weather Condition

Linear Acceleration - Accelerometer (MEMS technology)

Angular velocity and

Rotation rate - Gyroscope (MEMS)

Wheel Speed and

Steering Angle and

Lateral Speed - Vehicle Dynamics Sensors

Interior Pressure - Pressure Sensors

Ublox NEO-6M GPS Module