## **About Dataset**

You are provided with information on policyholders containing the attributes like policy tenure, age of the car, age of the car owner, the population density of the city, make and model of the car, power, engine type, etc, and the target variable indicating whether the policyholder files a claim in the next 6 months or not.

Dataset was a part of dataverse hack - hackathon by analytics vidhya on the 14th of November, 2022.

****Data Dictionary****

You are provided with 3 files - train.csv, test.csv, and sample\_submission.csv

Variable - Description

policy\_id- Unique identifier of the policyholder  
policy\_tenure- Time period of the policy  
age\_of\_car- Normalized age of the car in years  
age\_of\_policyholder- Normalized age of policyholder in years  
area\_cluster- Area cluster of the policyholder  
population density- Population density of the city (Policyholder City)  
make- Encoded Manufacturer/company of the car  
segment- Segment of the car (A/ B1/ B2/ C1/ C2)   
model- Encoded name of the car  
fuel\_type- Type of fuel used by the car  
max\_torque- Maximum Torque generated by the car (Nm@rpm)  
max\_power- Maximum Power generated by the car (bhp@rpm)  
engine\_type- Type of engine used in the car  
airbags- Number of airbags installed in the car  
is\_esc- Boolean flag indicating whether Electronic Stability Control (ESC) is present in the car or not.  
is\_adjustable\_steering- Boolean flag indicating whether the steering wheel of the car is adjustable or not.  
is\_tpms- Boolean flag indicating whether Tyre Pressure Monitoring System (TPMS) is present in the car or not.  
is\_parking\_sensors- Boolean flag indicating whether parking sensors are present in the car or not.  
is\_parking\_camera- Boolean flag indicating whether the parking camera is present in the car or not.  
rear\_brakes\_type- Type of brakes used in the rear of the car  
displacement- Engine displacement of the car (cc)  
cylinder- Number of cylinders present in the engine of the car  
transmission\_type- Transmission type of the car  
gear\_box- Number of gears in the car  
steering\_type- Type of the power steering present in the car  
turning\_radius- The space a vehicle needs to make a certain turn (Meters)  
length- Length of the car (Millimetre)  
width- Width of the car (Millimetre)  
height- Height of the car (Millimetre)  
gross\_weight- The maximum allowable weight of the fully-loaded car, including passengers, cargo and equipment (Kg)  
is\_front\_fog\_lights- Boolean flag indicating whether front fog lights are available in the car or not.  
is\_rear\_window\_wiper- Boolean flag indicating whether the rear window wiper is available in the car or not.  
is\_rear\_window\_washer- Boolean flag indicating whether the rear window washer is available in the car or not.  
is\_rear\_window\_defogger- Boolean flag indicating whether rear window defogger is available in the car or not.  
is\_brake\_assist- Boolean flag indicating whether the brake assistance feature is available in the car or not.  
is\_power\_door\_lock- Boolean flag indicating whether a power door lock is available in the car or not.  
is\_central\_locking- Boolean flag indicating whether the central locking feature is available in the car or not.  
is\_power\_steering- Boolean flag indicating whether power steering is available in the car or not.  
is\_driver\_seat\_height\_adjustable- Boolean flag indicating whether the height of the driver seat is adjustable or not.  
is\_day\_night\_rear\_view\_mirror- Boolean flag indicating whether day & night rearview mirror is present in the car or not.  
is\_ecw- Boolean flag indicating whether Engine Check Warning (ECW) is available in the car or not.  
is\_speed\_alert- Boolean flag indicating whether the speed alert system is available in the car or not.  
ncap\_rating- Safety rating given by NCAP (out of 5)  
****is\_claim- Outcome:**** Boolean flag indicating whether the policyholder file a claim in the next 6 months or not.

****Evaluation metric****

The evaluation metric for this dataset would be the F1 score.