**Exploratory data analysis to unveil patterns in a car insurance dataset**

**Introduction**

Exploratory Data Analysis (EDA) is a critical first step in understanding any dataset before modeling or drawing insights. This analysis focuses on a car insurance dataset.

Key attributes such as car manufacturer, engine size, number of cylinders, and performance metrics are analysed to uncover patterns and relationships that influence insurance risk.

Through systematic data inspection, cleaning, and visualisation, we aim to reveal insights that can guide decision-making for insurance companies.

**Car insurance dataset**

The dataset consists of 26 columns and 206 rows, providing detailed information about various cars, including their technical specifications, insurance risk ratings, and normalised loss values.

The features cover aspects like the car’s manufacturer, fuel type, body style, engine size, number of cylinders, and performance metrics such as horsepower and fuel efficiency.

In addition, the dataset includes a symboling value, which indicates the insurance risk associated with each car, and normalised losses, representing the average loss payment per insured vehicle year compared to other cars. Link to the dataset is here below