

Automobile Insurance Portfolio

Description of Risk Factors/Explanatory Variables

Automobile Portfolio (file autodata.txt):

- **ncontract** – Number of contract
- **exposition** – Risk Exposition of each policy during the year
- **zone** - Zone of Residence. Classification according to the number of inhabitants for Km²
 - A (1 a 50)
 - B (51 a 100)
 - C (101 a 500)
 - D (501 a 2000)
 - E (2001 a 10000)
 - F (>10000)
- **power** – Power of the vehicle. Classification in categorical levels.
 - Categories numbered from 4 to 15
- **agevehicle** – Integer variable representing the age of the insured vehicle
 - ages of vehicle, registered between 0 and 100 years
- **agedriver** – Integer variable representing the age of the usual driver
 - age of the usual driver, registered between 0 and 100 years
- **bonus** – premium bonus of the policy – numerical variable. It will not be used in a priori ratemaking.
- **brand** – Brand of the insured vehicle. Classification in Categorical levels:
 - 1 - Renault, Nissan
 - 2 - Peugeot, Citroen
 - 3 - Volkswagen, Audi, Skoda, Seat
 - 4 - Opel, GM
 - 5 - Ford
 - 6 - Fiat
 - 10 - Mercedes, Chrysler
 - 11 - BMW, Mini
 - 12 - Japanese and Korean
 - 13 – Other European
 - 14 – Other Brands
- **Fuel** – Vehicle fuel type. Categorical variable.
 - D - Diesel
 - E - Gasoline
- **popdensity** – Continuous variable with populational density of the área of residence of the policyholder. This variable was used to build the variable Zone. Should not enter the tariff model.
- **region** – region of the zone of residence of the policyholder. Classification in categorical variable. This variable was used to build the variable Zone. Should not enter the tariff model.

Portfolio dimension: 50.000 policies

Claims (file claimsdata.txt):

- **n**
- **ncontract** – Number of contract
- **coverage** – We are only interested in 3rd Party Liability Coverage – registered as “1RC “
- **cost** – severity of the claim

number of claims: 7.569 claims