Project 0: Actuarial students’ guide to information-based machine learning

The general idea behind information-based machine learning algorithms is to determine the descriptive features that carry the most information and chronologically test these features to create a decision tree. To identify those features which carry significant information we use the impurity measure of entropy. This project worked towards explaining the intuition and fundamentals behind the decision tree algorithm through mathematical examples and implementation of models in python. By using these concepts and algorithms, a dataset related to auto-insurance was analyzed and the results were interpreted.

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