

Intelligent Data Analysis

Exam: Insurance (Project 6)

This project is part of the exam *Intelligent Data Analysis*. Each project assignment is to be resolved by a single student on his/her own. The student is supposed to present the solution as part of the oral exam. The student is required to present a printed version of the Python code together with diagrams, tables, etc. that summarize the results. The specific way of how the project is presented is up to the student's choice.

Problem setting

You have been asked by an insurance company to analyze customer and sales data (caravan.train). These data contain 86 different kinds of information about the company's customers (see caravan.info). The insurance company would like to know from you which customers (caravan.test) could be interested in a caravan insurance and especially why. The insurance company expects you to present your results in a credible manner – only then will the results be taken into account in the company's decision-making processes!

Aufgabe

Perform an analysis of the given data: Read the data into Python, preprocess the data and choose a suitable method for solving the analysis problem. Implement this method in Python. Train and evaluate the model. Apply the model to the test data. Make the statements required by the insurance company. Briefly motivate and document all steps of your data analysis.