1. Introduction

The Swiss Federal Roads Office has been collecting information on road traffic accidents since 2011. Information about the different conditions under which every accident has taken place are included in the dataset created for this purpose. Following the cross industry standard process for data mining, a prediction model can now be built to predict the possibility of being involved into a car accident and its severity under any of the previously mentioned conditions. The results of the model can be used by drivers in Switzerland to reduce the risk of suffering a traffic accident by driving more carefully when the conditions so demand it or by picking the most appropriate route conditions whenever this is possible.

2. Data

Anonymised data on road traffic accidents with injury to persons since 2011 in Switzerland provided by the "Geoportal" of the Swiss Federal Administration.

The Federal Roads Office (FEDRO) is Switzerland's federal authority responsible for road infrastructure and private road transport. It belongs to the Federal Department of the Environment, Transport, Energy and Communications (DETEC), and focuses on securing sustainable and safe mobility on the country's roads. Its principal objective is to secure the functionality of Switzerland's motorway and main road networks.

The data set includes, among others, information on the year, the month, the weekday, the time of the accident, the type of road, the type of accident and the category of severity.