## **★** Hotel Reviews

## **Problem**

Find out the number of stars from a hotel review.

## **Data**

10000 hotel reviews in free text and a star rating (1-5). Another 10000 reviews for which you have just the text.



Identify fraudulent credit card transactions.

## **Data**

100M credit card transactions. Out of these 10000 turned out to be fraud attempts that have been cancelled.



Support decisions whether to switch a gas power plant in a given hour on or off depending on whether the energy price is high, low or negative.

#### Data

Historical development of the energy price per hour over 10 years. Historical weather data for the same period. Historical and current weather forecast.



Estimate how much of a given item a retail company needs to have in stock next years.

#### **Data**

Amount of sold items per day for the past 3 years. There are 10000 different items.



Display potentially interesting books on the website of an online book store.

#### **Data**

50000 Users and which books each of them have bought. Purchase history of the user currently visiting the website.



Select fitting customers for each of three targeted marketing campaigns advertising sports events.

#### **Data**

500 existing customers with a purchase history, sales volume, location and social media profile.

# Driving Assistant

## **Problem**

Build a device that warns a driver if there is a bicycle on the assistants camera.

#### **Data**

100000 Camera images on which the bicycles have been labeled manually.



Switch light / music / heating on and off by speaking to a home assistant.

#### **Data**

200 hours of commands spoken by different people and the transcription to text.