Data Mining Cup (WS 2017/18)

Description

This is a dataset provided by BMW. It contains information about electric vehicle charging stations, their location, and their availability in April 2017. Every few hours, the availability of a number of stations is checked and stored in the data set. Since the process of charging an electric vehicle takes up some time, it is important to know whether certain charging stations are likely to be available or in use at a certain time. For you it is to build a model that predicts whether a station is available or in use at some depicted days in May 2017.

We highly appreciate the support and inform the students that any further distribution or use of this dataset outside the Data Mining Cup is strictly forbidden.

Classification Task

The task is to predict for all instances in the test dataset whether a charging station is available or in use at a certain time.

Feature Overview

Feature	Description	Range of values	Missing values
Id	Ping id	Natural number	No
portNumber	Port at charging station	Natural number	No
TimeStamp	Time of ping	Date	No
EI65_GEO_ID	Station id	Natural number	No
HOUSEHOLD_COUNT	Number of households in neighborhood	Natural number	Yes
TYP1_COUNT	Socket type	Natural number	No
FREECHARGE	No cost for charging	String	Yes
ADDR_LATITUDE	Location	Number	No
ADDR_LONGITUDE	Location	Number	No
ADDR_MUNICIPALITY	City	String	Yes
ADDR_POSTALCODE	Postal code	Number	No
ADDR_REGION	State	String	No
ADDR_STREET	Street	String	No
LAST_MODIFIED	Update of station details	Date	No
PREFERRED_PARTNER	Partner of charge now	String	No
VALIDATION_LAST_MODIFIED	Last time a BMW customer charged there	Date	No
IS_LSC_VALIDATED	Validation technique	String	No
Status	Availability of station	{0,1}, 0 for available	No