

# SOS2025 Experiment Report - Group 21

Martin Kowarik\*

TU Wien  
Austria

Matthias Frenzl†

TU Wien  
Austria

## ABSTRACT

This report documents the machine learning experiment for Group 21, following the CRISP-DM process model.

## CCS CONCEPTS

- Computing methodologies → Machine learning

## KEYWORDS

CRISP-DM, Provenance, Knowledge Graph, Machine Learning

### ACM Reference Format:

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## 1 BUSINESS UNDERSTANDING

### 1.1 Data Source and Scenario

### 1.2 Business Objectives

## 2 DATA UNDERSTANDING

### Dataset Description:

Describe the data set.  
The following features were identified in the dataset:

Table 1: Raw Data Features

Feature Name	Data Type	Description
date	dateTime>	This is a date field of...
number	integer>	This field describes..

## 3 DATA PREPARATION

### 3.1 Data Cleaning

Describe your Data preparation steps here and include respective graph data.

\*Student A, Matr.Nr.: 01634081

†Student B, Matr.Nr.: 00753306

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## 4 MODELING

### 4.1 Hyperparameter Configuration

The model was trained using the following hyperparameter settings:

Table 2: Hyperparameter Settings

Parameter	Description	Value

### 4.2 Training Run

A training run was executed with the following characteristics:

- Algorithm:
- Start Time:
- End Time:
- Result: =

## 5 EVALUATION

## 6 DEPLOYMENT

## 7 CONCLUSION