Thesis Abstract

In a business world that is changing rapidly it is very important to have clear business strategies. Most companies implement these strategies through projects. That makes successful project management a critical factor. Today project success rates are very low which has a bad economic impact on companies’ profit. To predict whether a project will fail or succeed is often not possible. That is why many enterprises search for alternative tools to estimate their projects’ success.

In this thesis I am trying to analyze what information is needed to forecast project success for agile projects. Hence, we need to integrate data from different data sources we will make use of a state-of-the-art Data Warehouse technology SAP Data Warehouse Cloud. The idea is to examine how cloud-based Data Warehouse technology can bring data in the suiting format for machine learning use cases and how built-in features can help to integrate data.

The target class “project success” containing the information whether a project was successful or not is not included in the dataset. Therefore, a questionnaire needs to be created for experts who were involved to assess finished projects’ success. After retracing these labels, several machine learning algorithms for classification will be applied and to the data to create a model which is able to estimate project success for future projects