Creation of a dashboard for checking balance payments

Dependable Systems - Dirk Nowotka

Project Description

The data and questions of this thesis are provided by the Zweckverband Ostholstein (ZVO).

Company

The Zweckverband Ostholstein with its 500 employees provides a wide range of services in the field of local supply and disposal, including wastewater management, waste management, drinking water supply and heat supply in the districts of Ostholstein, Plön and Segeberg.

Motivation

The auditing department of the ZVO currently carries out a number of plausibility checks of payment transactions manually at half-yearly intervals. Automation is intended to speed up these processes and provide a better overview of important characteristics of payment transactions. In addition, new types of conspicuous payments are to be detected.

Task of Thesis

The goal of the project is to automate payment transaction checks that were previously performed manually. For this purpose, the database queries and plausibility checks are to be implemented in a dashboard that simplifies their execution and clearly displays the results. In addition, anomaly detection will be used to identify conspicuous payment transaction data.

Applicable For

Bachelorstudents ✔
Masterstudents ✔

Skillset

Programming ○○○○○
Machine Learning ○○○○○

Keywords

Anomaly Detection
Data Visualization
Dashboard

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