DECISION SUPPORT APPLICATION SUPERMARKET

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Overview

- In the present world most of the sales companies wants to forecast their sales in order to take an appropriate decision for their business.

- Their goal is to know which product is sold most and during which time of the year depending on conditions like weather, holidays, month and year.

Overview

- Their main motto is to take a healthy decision which will contribute to growth in business based on the forecast of the products depending on their sale statistics.

- In our project we have developed an application which will help them in taking decision related to their business efficiently.

Project Requirements

- Dataset for project required- In this project we took Rossman Dataset.
- Dataset: https://www.kaggle.com/c/rossmann-store-sales/data
- Implementation of two evaluation algorithm
- Tools used: SAP HANA Database, SAP Predictive Analysis, Python, Javascript, HTML and SAPUI5(UI Framework).

Project Plan

Phase 1- Requirement

- Getting the exact idea of the Project.
- Understanding the project requirements.
- Research for the getting the dataset and then analyzing its structure.
- Steps taken for data Transformation
- Loading data into Hana.

Project Plan

Phase 2- Implementation

- Minimization of data in Hana by association process.
- For Association of data Calculation view is being used.
- Next step is transferring the associated data to Predictive Analysis.
- To illustrate the result user interface is to be designed.
- SAPUI5 – For implementation of user interface.

Project Plan

Phase 3 – Evaluation

- Research for selecting and implementing the best algorithm suitable for the data
- Implementation of algorithm on dataset
- Evaluation of final result.

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Roles & Responsibility

Pooja Mishra	Team Leader
Tejaswini Mahendra	Developer
Tina Ancelin Joseph Martin	Developer
Jagriti Labh	Manager

Concept

- Three dataset were taken into consideration-

  ⟹ train.csv - historical data including Sales

  ⟹ test.csv - historical data excluding Sales

  ⟹ store.csv - supplemental information about the stores