SDLC IN DATA SCIENCE

Problem definition

The current inventory management system is failing to provide accurate real-time data, causing stockouts and overstocking issues that impact sales and operation

Data collection

Data(raw data)

Information- refined data in arranged in some meaningful order is called information

In this stage data is collected which is required to solved the problem from various sources

For eg data can be collected from- sales report,customers reports, inventory stock records

Data preparation

The preparation of cleaning and preparing the collected data to make it suitable for analysis

Handeling null or missing values

Handel duplicate values- we can actually delete the duplicate values

Creating new features

We can clean the sales data by removing the duplicate values handeling the missing values and creating feature like location wise purchase report or categories of product to recommend

EDA

We can use visualization technique to identify latest market trends that can be observed in the product purchase or sale

Eg- which product or products are purchased in combinequently by the customers

Modelling

In mofelling phase we create mathematical model based o the data that is collected and prepared to increase sales to recommend product duo that can be shared to customers