Project Design Phase-I

Solution Architecture

Date	11-11-2023
Team ID	Team-591736
Project Name	Walmart Store Sales Forecasting
Maximum Marks	4 Marks

Solution Architecture for Walmart Sales Forecasting:

 Solution architecture for Walmart's sales forecasting project involves designing a comprehensive system that incorporates data analysis, machine learning algorithms, and deployment mechanisms. The architecture aims to address business problems related to sales forecasting and provide a technology solution that enables accurate predictions. Here's an outline of the key components:

Data Sources → **Data Preprocessing** → **Machine Learning** → **ARIMA Model**

XGBoost • Random Forest

Flask Integration

FLASK WEB APPLICATION
USER AUTHENTICATION

Flask Application

IBM Cloud

Models Flask

Logging & Monitoring

CI/CD PIPELINE

CI • CD

Technical Documentation

Data Encryption