

Project Design Phase
Solution Architecture

Date	8 November 2023
Team ID	Team-592143
Project Name	Walmart Sales Analysis For Retail Industry With Machine Learning
Maximum Marks	4 Marks

Solution Architecture:

Data from 45 Walmart stores undergoes rigorous preprocessing which includes Data cleaning, transforming, and aggregating it for analysis. Machine learning models, including Random Forest, Decision Tree, XGBoost, and ARIMA, are applied to the preprocessed data and development of highly accurate sales forecasting models.

To provide accessible insights and recommendations, the results are seamlessly integrated into a user-friendly Flask web application hosted on local system.

End-users, including data analysts, business strategists, and store managers, access the Flask application via web browsers. This direct interaction allows them to make informed, data driven decisions, enhancing sales optimization and overall decision making processes.

Solution Architecture Diagram:

