# Walmart Sales Analysis

![Walmart Logo](https://corporate.walmart.com/\_furniture/\_images/logo-og.png)

Welcome to the Walmart Sales Analysis repository! This repository contains a comprehensive analysis of sales data from Walmart stores. Whether you're a data enthusiast, a business analyst, or a curious mind, you'll find valuable insights and tools to explore and understand the retail landscape.

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## Introduction

Understanding sales data is crucial for businesses to make informed decisions, optimize strategies, and enhance performance. This repository aims to provide a detailed analysis of Walmart's sales data, offering insights into various factors influencing sales performance, seasonal trends, geographical patterns, and more.

## Dataset Overview

The dataset used for this analysis consists of historical sales data from Walmart stores. It includes information such as store details, department-wise sales, holiday events, and temperature.

- \*\*Data Source\*\*: [Walmart Recruiting - Store Sales Forecasting](https://www.kaggle.com/c/walmart-recruiting-store-sales-forecasting/data)

- \*\*File Structure\*\*:

- `train.csv`: Training data containing historical sales data

- `test.csv`: Test data for forecasting future sales

- `stores.csv`: Store details including type and size

- `features.csv`: Additional data such as temperature and holiday events

## Analysis Highlights

- \*\*Exploratory Data Analysis (EDA)\*\*: Dive into the dataset to uncover patterns, trends, and correlations.

- \*\*Seasonal Analysis\*\*: Identify seasonal trends and their impact on sales.

- \*\*Store Performance Comparison\*\*: Compare sales performance across different store types and sizes.

- \*\*Forecasting\*\*: Utilize machine learning models to forecast future sales.

- \*\*Impact of External Factors\*\*: Analyze how external factors like temperature and holiday events affect sales.

## How to Use

To get started with the analysis:

1. \*\*Clone the Repository\*\*: `git clone https://github.com/sansutiwary/Walmart-Sales-Analysis.git`

2. \*\*Install Dependencies\*\*: Ensure you have the necessary Python libraries installed. You can install them using `pip install -r requirements.txt`.

3. \*\*Explore the Notebooks\*\*: Dive into the Jupyter notebooks provided in the repository to explore the analysis and findings.

4. \*\*Contribute\*\*: Feel free to contribute your insights, improvements, or additional analyses by creating pull requests.

## Contributing

Contributions to this repository are welcomed and encouraged! Whether it's fixing a bug, adding a new analysis, or improving documentation, every contribution is valuable. To contribute, follow these steps:

1. Fork the repository.

2. Create your feature branch: `git checkout -b feature/new-feature`.

3. Commit your changes: `git commit -am 'Add some feature'`.

4. Push to the branch: `git push origin feature/new-feature`.

5. Submit a pull request.

## License

This project is licensed under the MIT License - see the [LICENSE](LICENSE) file for details.

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Feel free to customize it further to better suit your needs or preferences!