

Wireframe Stores Sales Prediction

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31-08-2024	1.0	Abstract	Swapnil Shinde
31-08-2024	1.1	User Input	Swapnil Shinde
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Abstract

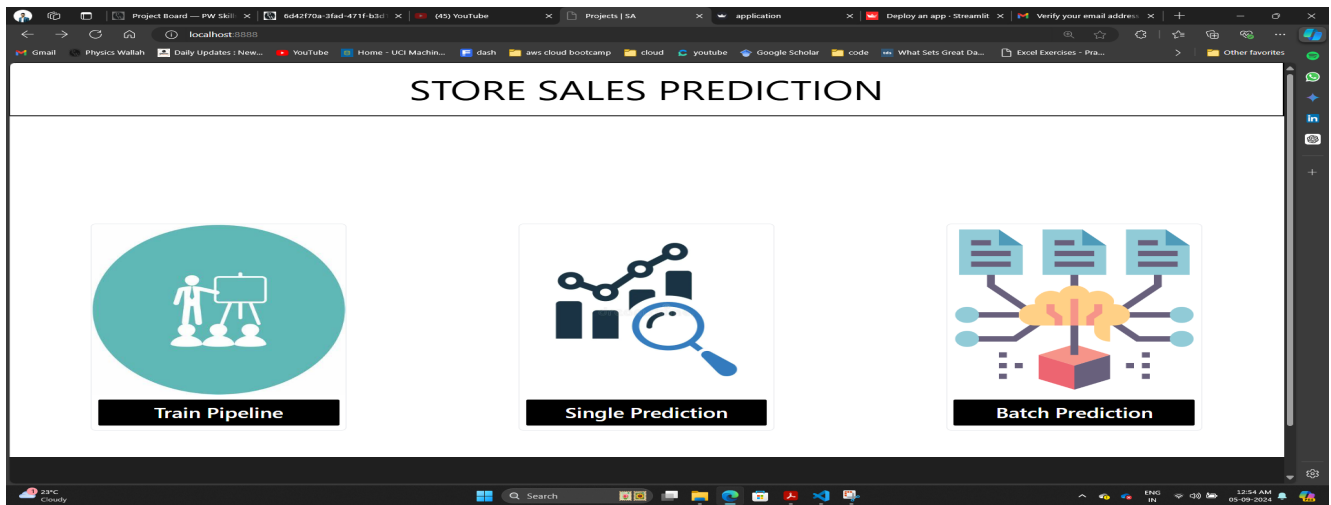
In today's retail landscape, shopping malls and Big Marts meticulously collect and store individual item sales data for consumer insights. This data-driven system involves data ingestion, transformation, model building, and batch predictions, stored in a secure data warehouse. We also prioritize user accessibility with an intuitive interface, bridging the gap between data and actionable insights. Our modular architecture, algorithms, and visualizations showcase our technical prowess, paving the way for a retail future where anomalies and patterns become strategic assets.

Wireframe

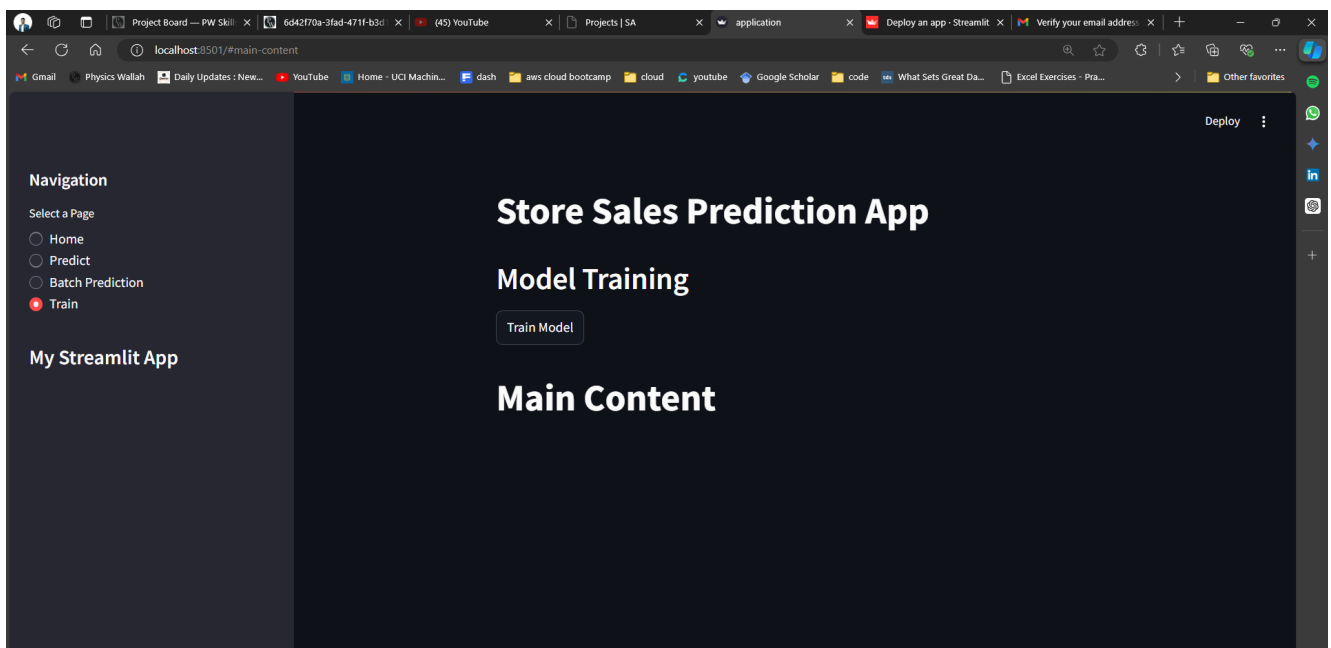
1. Web Interface

Our web page is one single interface where both input from the user and the prediction is displayed.

LocalHost

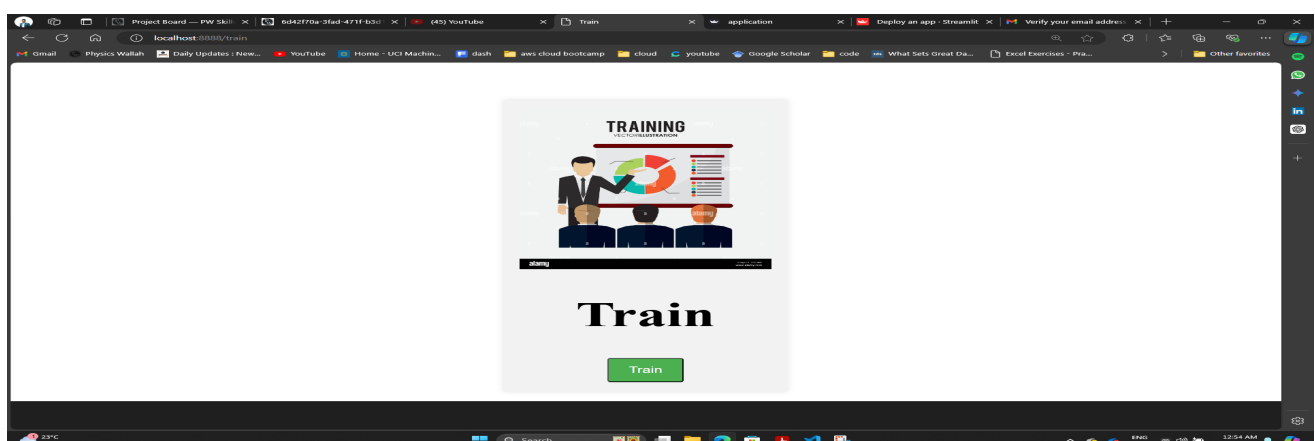


streamlit Cloud

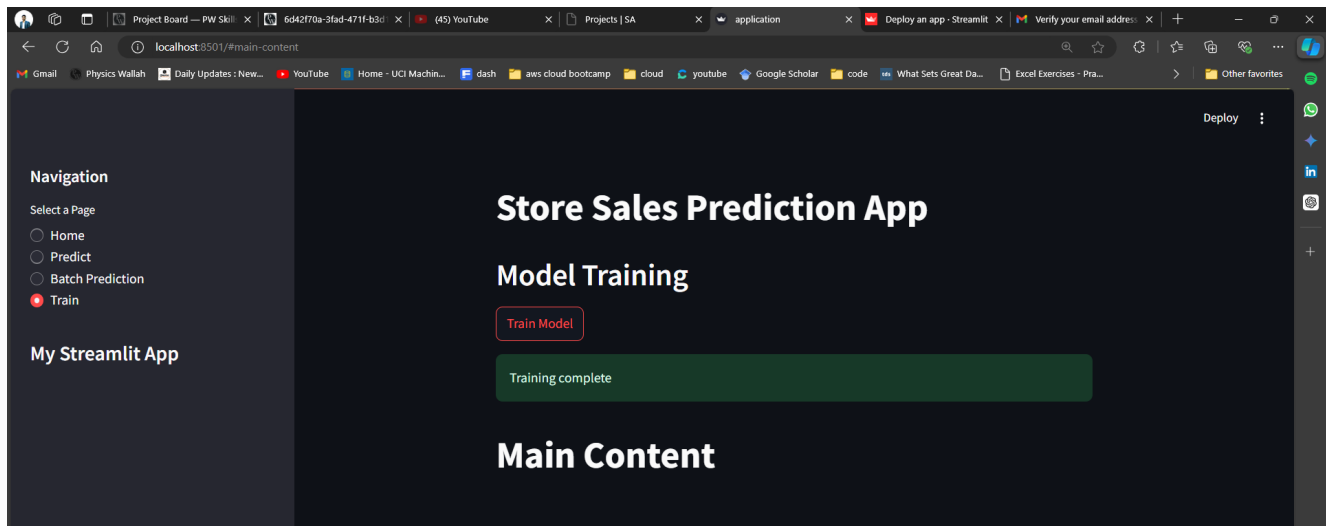


2.Model Training

Model Training Localhost



Model Training Streamlit



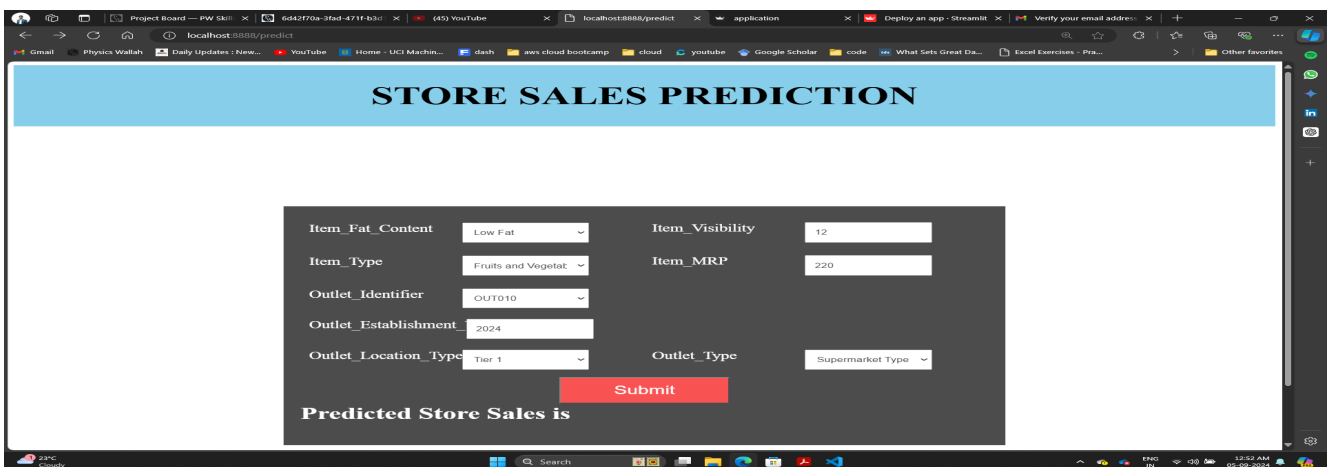
3User Input

Whenever the user hits our url , they first see the user input page here they have to provide the information like:

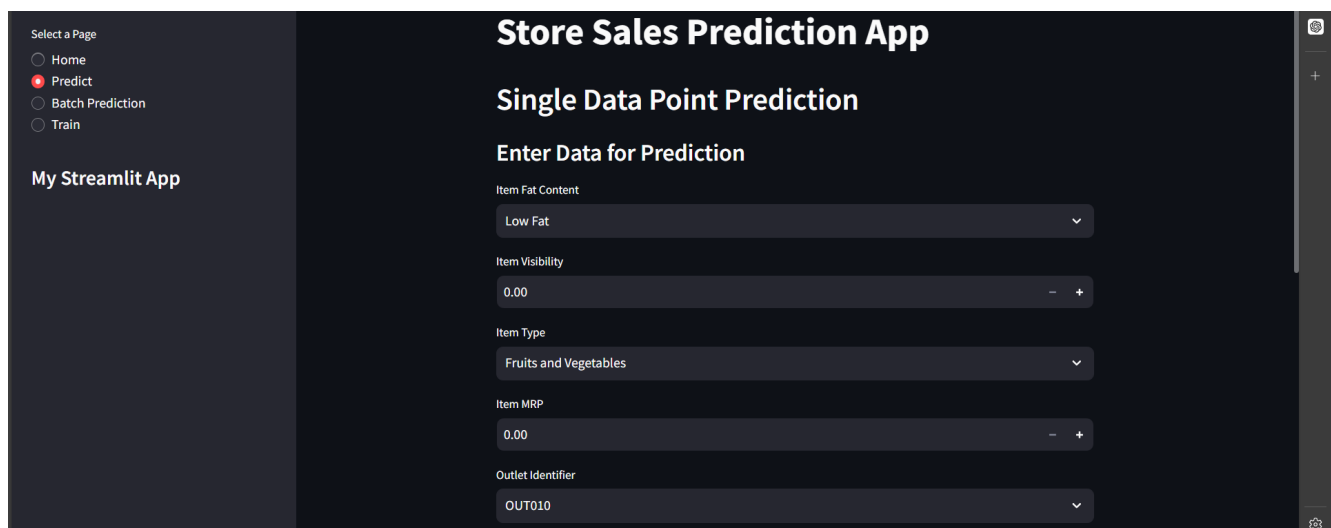
Every user input has its own dropdown where the user can select their input.

After providing the required input and pressing the submit button, the page refreshes and displays the output

Value Fill LocalHost



Value Fill Streamlit



4.Result Page

After the user hits the submit button the page gets refreshed and the results are being displayed in the highlighted area in the above frame.

The user can refill all the inputs in same page and get the results in the same way.

Result Localhost

STORE SALES PREDICTION

Item_Fat_Content: Low Fat
Item_Type: Fruits and Vegetat
Outlet_Identifier: OUT010
Outlet_Establishment: Enter YEAR
Outlet_Location_Type: Tier 1
Item_Visibility: Item Visibility (float)
Item_MRP: Enter MRP (float)
Outlet_Type: Supermarket Type

Submit

Predicted Store Sales is 3369

Result Streamlit

Navigation

Select a Page

- Home
- Predict**
- Batch Prediction
- Train

My Streamlit App

ITEM PRICE: 100.00

Outlet Identifier: OUT035

Outlet Establishment Year: 2024

Outlet Location Type: Tier 1

Outlet Type: Grocery Store

Predict

Predicted Store Sales is: 137

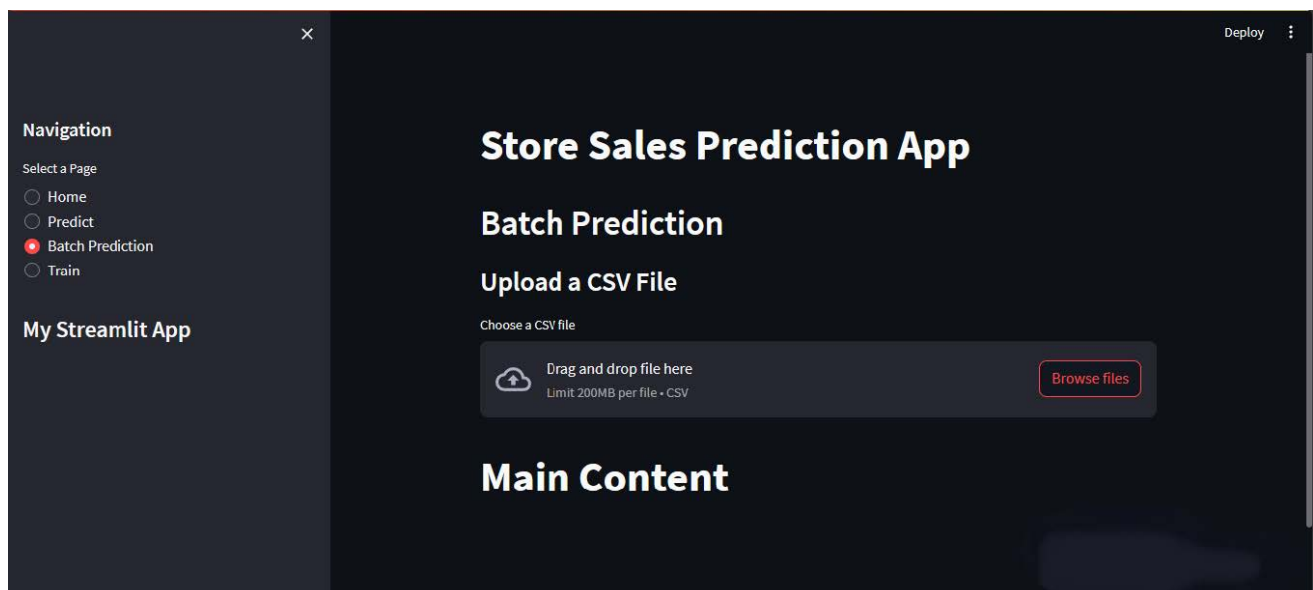
Main Content

5.Batch Prediction

Batch Localhost

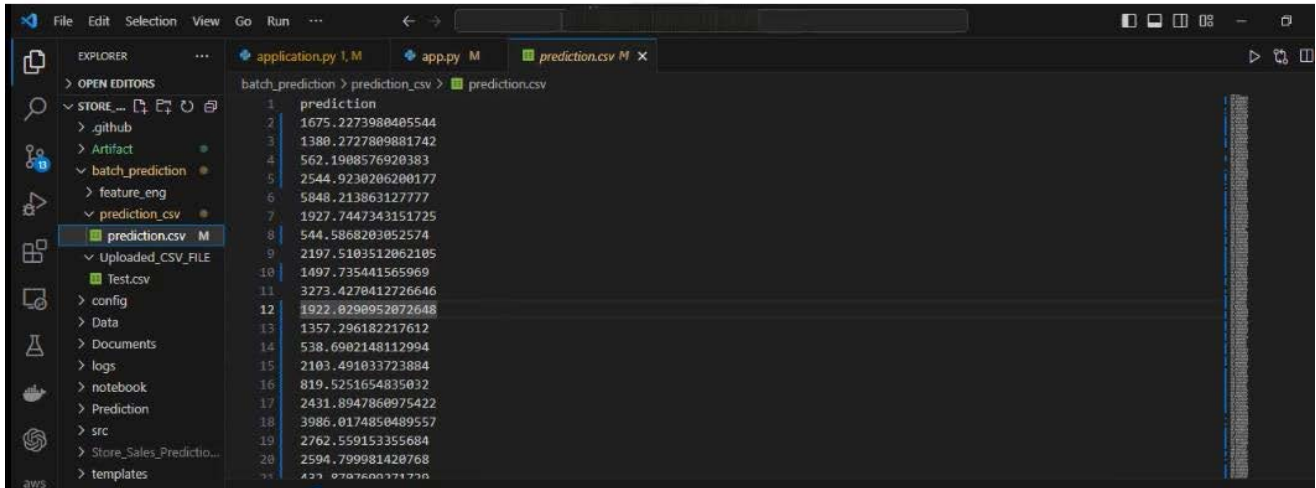


Batch streamlit



6.Batch Prediction Output:

Localhost:



```
1 prediction
2 1675.2273988485544
3 1380.22727809881742
4 562.1908576928383
5 2544.9230206280177
6 5848.213863127777
7 1927.7447343151725
8 544.5868203052574
9 2197.5103512062105
10 1497.735441565969
11 3273.4278412726646
12 1922.8290952872648
13 1357.296182217612
14 538.6902148112994
15 2103.491033723884
16 819.5251654835032
17 2431.8947860975422
18 3986.0174850489557
19 2762.559153355684
20 2594.799981428768
```

Streamlit:

