Week 4: Deployment on Flask

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Batch Code: LISUM20

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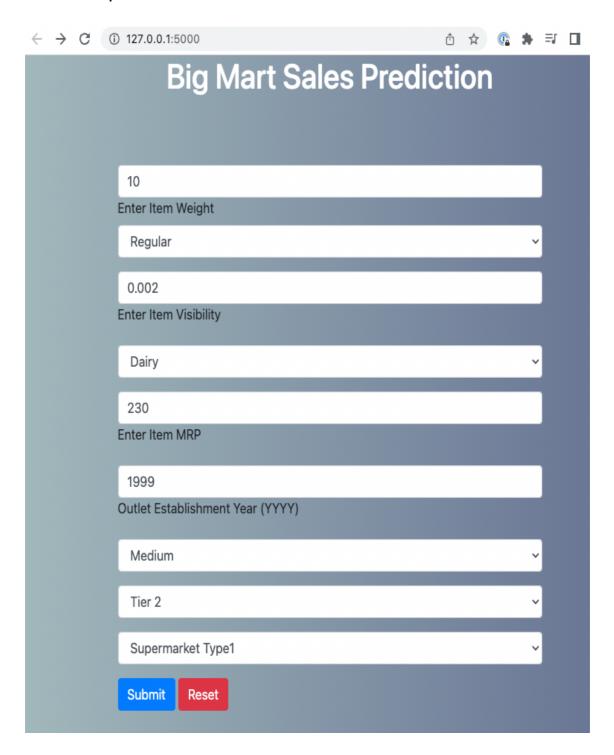
For this project we are using Big Mart Sales Prediction and using the flask framework. The Dataset and model building file is present in the Github.

The **app.py** file contains python code to run a flask web application. **home.html** contains the web design which is used in the app file.

```
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import numpy as np
from flask import Flask, jsonify, render_template, request
app = Flask(__name__)
@app.route("/")
def index():
   return render_template("home.html")
@app.route('/predict',methods=['POST','GET'])
    Weight= float(request.form['item_weight'])
    Fat_Content=float(request.form['item_fat_content'])
    Item_Visibility= float(request.form['item_visibility'])
   Item_Type= float(request.form['item_type'])
   MRP = float(request.form['item_mrp'])
    Year= float(request.form['outlet_establishment_year'])
    Outlet_Size= float(request.form['outlet_size'])
    Location= float(request.form['outlet_location_type'])
    Outlet_Type= float(request.form['outlet_type'])
    X np.array([[_Weight_Fat_Content_litem_Visibility_Item_Type_MRP, Year_Outlet_Size_Location_Outlet_Type]])
    model_path=r'/Users/rajatmaloo/Documents/Internship/Week 4/models/xg.sav'
    model joblib.load (model_path)
    Y_pred=model.predict(X)
    return jsonify({'Prediction of Sales': float(Y_pred)})
   ...name...== "...main...":
```

After running the flak application we will get a link to access the website.

The below screenshot shows the webpage where users enter the values to predict the sales of an item.



```
\leftarrow \rightarrow C (i) 127.0.0.1:5000/predict
```

```
Prediction of Sales": 4089.793701171875
```