

APPLICATION BUILDING

| | |
|--------------|-----------------------------------|
| Team id | PNT2022TMID45520 |
| Project name | AI powered Food Demand Forecaster |

CREATE AN HTML FILE:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Home</title>
```

```
<style>
```

```
.navbar
```

```
{
```

```
margin: 0px;
```

```
padding:20px;
```

```
background-color:white;
```

```
opacity:0.6;
```

```
color:black;
```

```
font-family:'Roboto',sans-serif;
```

```
font-style: italic;
```

```
border-radius:20px;
```

```
font-size:25px;
```

```
}
```

```
a
```

```
{
```

```
color:grey;
```

```
float:right;
```

```
text-decoration:none;
```

```
font-style:normal;

padding-right:20px;

}

a:hover{

background-color:black;

color:white;

border-radius:15px;0

font-size:30px;

padding-left:10px;

}

p

{

color:white;

font-style:italic;

font-size:30px;

}

body

{

background-image: url('https://wallpaperaccess.com/full/6221191.jpg');

background-size: cover;

}

</style>

</head>

<body>

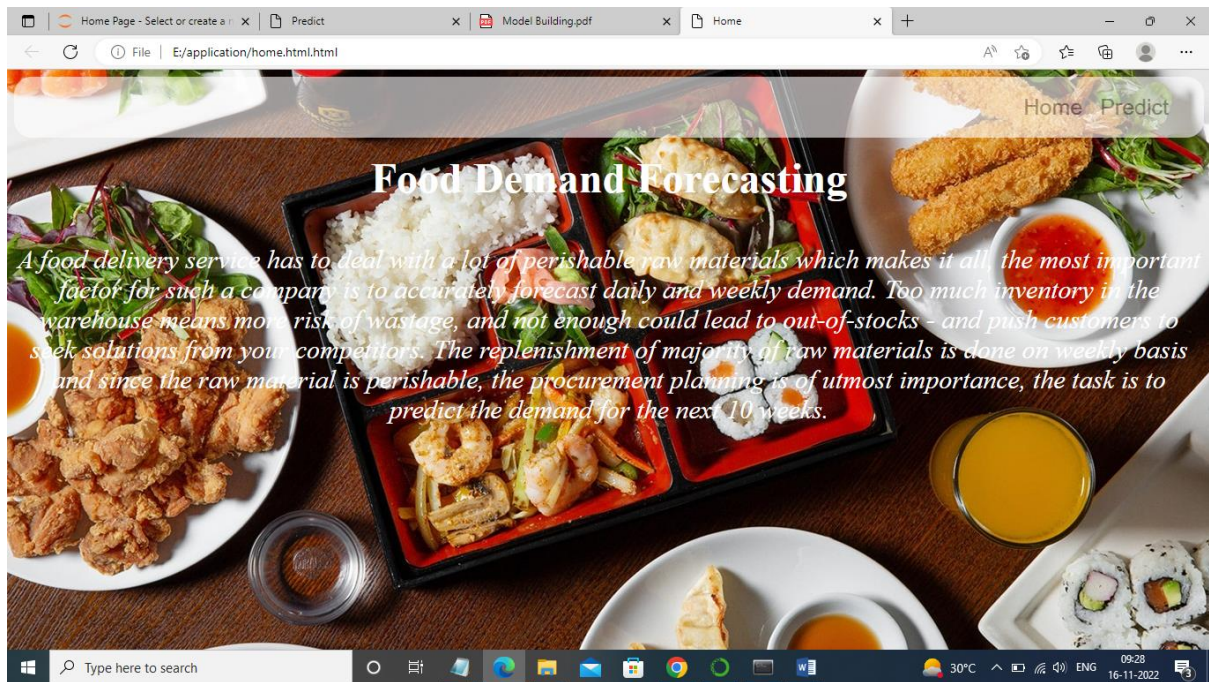
<div class="navbar">

<a href="/pred">Predict</a>
```

[Home](/home)

**Food
Demand Forecasting**

A food delivery service has to deal with a lot of perishable raw materials which makes it all, the most important factor for such a company is to accurately forecast daily and weekly demand. Too much inventory in the warehouse means more risk of wastage, and not enough could lead to out-of-stocks - and push customers to seek solutions from your competitors. The replenishment of majority of raw materials is done on weekly basis and since the raw material is perishable, the procurement planning is of utmost importance, the task is to predict the demand for the next 10 weeks.



BUILD PYTHON CODE:

```
import pandas as pd

import numpy as np

import pickle

import os

from flask import Flask,request, render_template

app=Flask(__name__,template_folder="templates")

@app.route('/', methods=['GET'])

def index():

    return render_template("home.html")

@app.route('/home', methods=['GET'])

def about():

    return render_template("home.html")
```

```

@app.route('/pred',methods=['GET'])

def page():

return render_template('upload.html')

@app.route('/predict', methods=['GET', 'POST'])

def predict():

print("[INFO] loading model...")

model = pickle.load(open('fdemand.pkl', 'rb'))

input_features = [float(x) for x in request.form.values()]

features_value = [np.array(input_features)]

print(features_value)


features_name = ['homepage_featured', 'emailer_for_promotion', 'op_area',
'cuisine',

'city_code', 'region_code', 'category']

prediction = model.predict(features_value)

output=prediction[0]

print(output)

return render_template('upload.html', prediction_text=output)


if __name__ == '__main__':

app.run(debug=False)

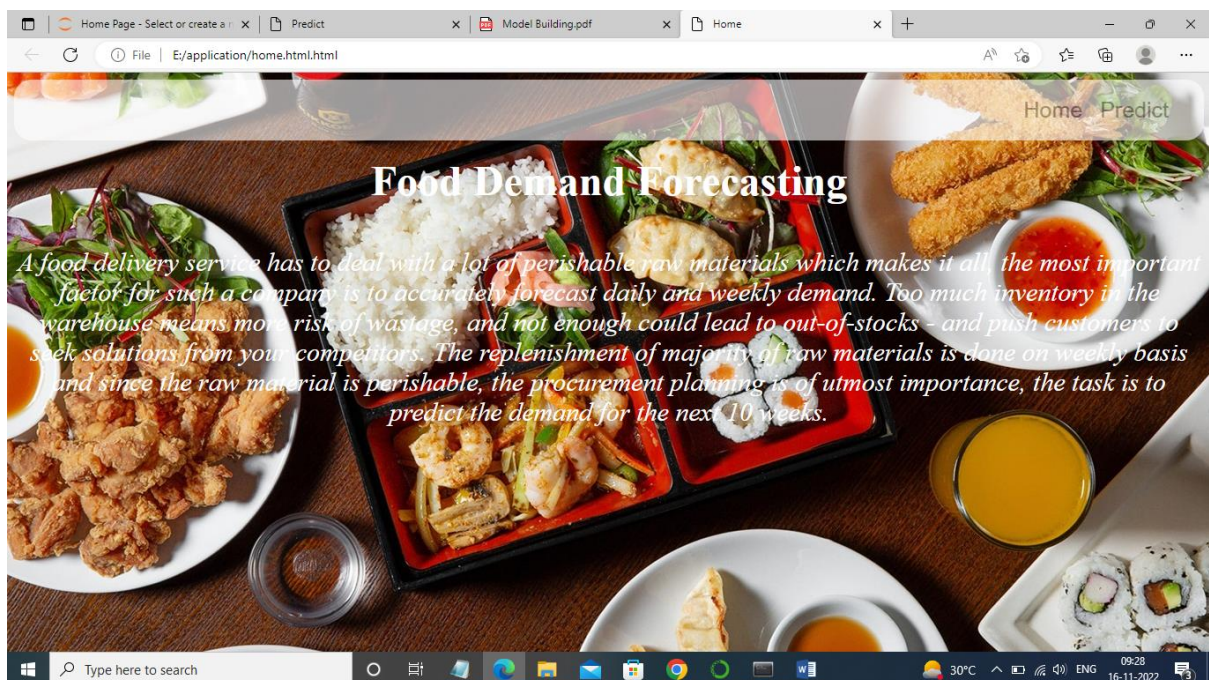
```

RUN THE APP:

```
Anaconda Prompt (anaconda3) - python main.py
(base) C:\Users\GAMESH>cd document
The system cannot find the path specified.
(base) C:\Users\GAMESH>cd documents
(base) C:\Users\GAMESH\Documents>cd python scripts
(base) C:\Users\GAMESH\Documents\Python Scripts>conda install -c anaconda flask
Collecting package metadata (current_repodata.json): done
Solving environment: done

# All requested packages already installed.
Retrieving notices: ...working... done
(base) C:\Users\GAMESH\Documents\Python Scripts>python main.py
* Serving Flask app "main" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

HOME PAGE:



REGISTER PAGE:

Home Predict

Food Demand Forecasting

Yes
Yes
33
Indian
406
09
Soup
Predict

Number of orders: {{ prediction_text }}

Type here to search

30°C 10:04 16-11-2022