Application Building

Team ID	PNT2022TMID35762
Project Name	DEMANDEST – AI POWERED FOOD
	DEMAND FORECASTER

Home Page:

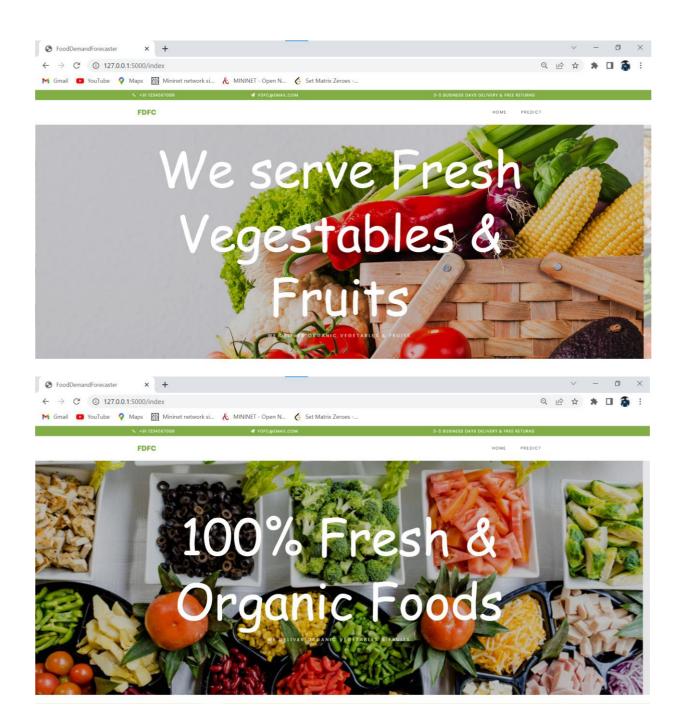
```
<!DOCTYPE html>
<html>
 <head>
  <title>FoodDemandForecaster</title>
  link
href="https://fonts.googleapis.com/css?family=Poppins:200,300,400,500,600,700,800&displa
y=swap" rel="stylesheet">
  k rel="stylesheet" href="../static/css/animate.css">
  k rel="stylesheet" href="../static/css/owl.carousel.min.css">
  k rel="stylesheet" href="../static/css/icomoon.css">
  k rel="stylesheet" href="../static/css/style.css">
 </head>
 <body class="goto-here">
             <div class="py-1 bg-primary">
      <div class="container">
             <div class="row no-gutters d-flex align-items-start align-items-center px-md-0">
                   <div class="col-lg-12 d-block">
                         <div class="row d-flex">
                                <div class="col-md pr-4 d-flex topper align-items-center">
                                      <div class="icon mr-2 d-flex justify-content-center"</pre>
align-items-center"><span class="icon-phone2"></span></div>
                                         <span class="text">+91 1234567089</span>
                                  </div>
                                  <div class="col-md pr-4 d-flex topper align-items-center">
                                      <div class="icon mr-2 d-flex justify-content-center</pre>
align-items-center"><span class="icon-paper-plane"></span></div>
                                         <span class="text">FDFC@email.com</span>
                                  </div>
```

```
<div class="col-md-5 pr-4 d-flex topper align-items-center"</pre>
text-lg-right">
                                       <span class="text">3-5 Business days delivery
& Free Returns</span>
                                 </div>
                          </div>
                    </div>
              </div>
             </div>
  </div>
  <nav class="navbar navbar-expand-lg navbar-dark ftco_navbar bg-dark ftco-navbar-light"
id="ftco-navbar">
        <div class="container">
         <a class="navbar-brand" href="/index">FDFC</a>
         <div class="collapse navbar-collapse" id="ftco-nav">
          ul class="navbar-nav ml-auto">
            <a href="/index" class="nav-link">Home</a>
            <a href="/index1" class="nav-link">Predict</a>
           </div>
        </div>
       </nav>
  <section id="home-section" class="hero">
             <div class="home-slider owl-carousel">
         <div class="slider-item" style="background-image: url(../static/images/bg_1.jpg);">
            <div class="overlay"></div>
           <div class="container">
            <div class="row slider-text justify-content-center align-items-center" data-</pre>
scrollax-parent="true">
             <div class="col-md-12 ftco-animate text-center">
              <h1 class="mb-2">We serve Fresh Vegestables & amp; Fruits</h1>
              <h2 class="subheading mb-4">We deliver organic vegetables & amp;
```

fruits</h2>

```
</div>
             </div>
            </div>
          </div>
          <div class="slider-item" style="background-image:</pre>
url(../static/images/image_5.jpg);">
             <div class="overlay"></div>
            <div class="container">
             <div class="row slider-text justify-content-center align-items-center" data-
scrollax-parent="true">
              <div class="col-sm-12 ftco-animate text-center">
                <h1 class="mb-2">100% Fresh & Drganic Foods</h1>
                <h2 class="subheading mb-4">We deliver organic vegetables & amp;
fruits</h2>
              </div>
             </div>
            </div>
          </div>
         </div>
  </section>
 <script src="../static/js/jquery.min.js"></script>
 <script src="../static/js/jquery-migrate-3.0.1.min.js"></script>
 <script src="../static/js/jquery.waypoints.min.js"></script>
 <script src="../static/js/jquery.stellar.min.js"></script>
 <script src="../static/js/owl.carousel.min.js"></script>
 <script src="../static/js/aos.js"></script>
 <script src="../static/js/scrollax.min.js"></script>
 <script src="../static/js/main.js"></script>
 </body>
```

</html>



Predict Page:

<!DOCTYPE html>

<html>

<head>

<title>FoodDemandForecaster</title>

k

href="https://fonts.googleapis.com/css?family=Poppins:200,300,400,500,600,700,800&displa y=swap" rel="stylesheet">

k rel="stylesheet" href="../static/css/animate.css">

k rel="stylesheet" href="../static/css/owl.carousel.min.css">

k rel="stylesheet" href="../static/css/icomoon.css">

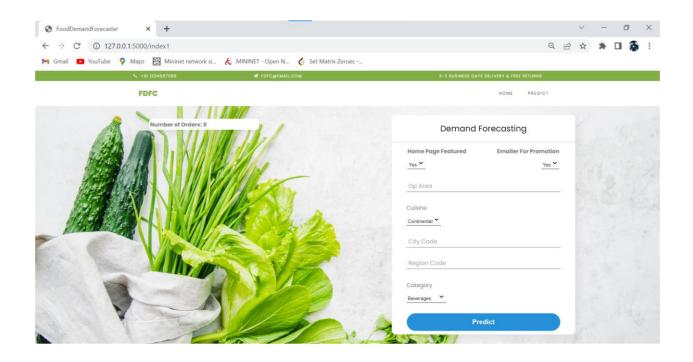
```
k rel="stylesheet" href="../static/css/style.css">
  k rel="stylesheet" href="../static/css/predictstyle.css">
 </head>
 <body class="goto-here">
             <div class="py-1 bg-primary">
      <div class="container">
             <div class="row no-gutters d-flex align-items-start align-items-center px-md-0">
                   <div class="col-lg-12 d-block">
                          <div class="row d-flex">
                                <div class="col-md pr-4 d-flex topper align-items-center">
                                       <div class="icon mr-2 d-flex justify-content-center"</pre>
align-items-center"><span class="icon-phone2"></span></div>
                                          <span class="text">+91 1234567089</span>
                                   </div>
                                   <div class="col-md pr-4 d-flex topper align-items-center">
                                       <div class="icon mr-2 d-flex justify-content-center</pre>
align-items-center"><span class="icon-paper-plane"></span></div>
                                          <span class="text">FDFC@email.com</span>
                                   </div>
                                   <div class="col-md-5 pr-4 d-flex topper align-items-center"</pre>
text-lg-right">
                                          <span class="text">3-5 Business days delivery
& Free Returns</span>
                                   </div>
                             </div>
                      </div>
               </div>
              </div>
  </div>
  <nav class="navbar navbar-expand-lg navbar-dark ftco_navbar bg-dark ftco-navbar-light"</pre>
id="ftco-navbar">
         <div class="container">
          <a class="navbar-brand" href="/index">FDFC</a>
```

<div class="collapse navbar-collapse" id="ftco-nav">

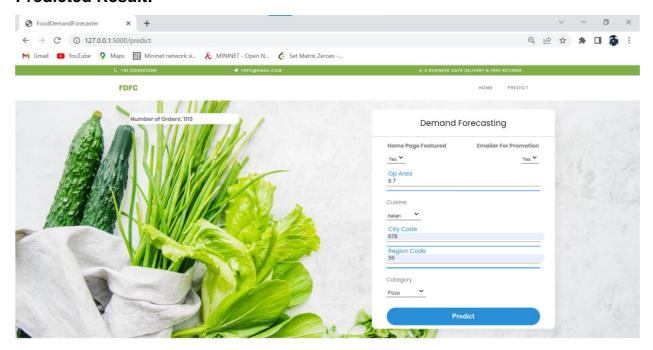
```
ul class="navbar-nav ml-auto">
           <a href="/index" class="nav-link">Home</a>
           <a href="/index1" class="nav-link">Predict</a>
          </div>
        </div>
       </nav>
  <section id="home-section" class="hero">
             <div class="home-slider owl-carousel">
         <div class="slider-item" style="background-image: url(../static/images/bg_3.jpg);">
       <div class="center">
         <h1>Demand Forecasting</h1>
         <form action="/predict" method="post">
           <label style="float:left;">Home Page Featured</label>
               <select id="homepage_featured" name="homepage_featured" class = "ih-</pre>
form-control" required style="float:left;">
               <option value="1">Yes</option>
               <option value="0">No</option>
               </select>
              <label style="float:right;">Emailer For Promotion/label>
               <select id="emailer_for_promotion" name="emailer_for_promotion" class =</pre>
"ih-form-control" required style="float:right;">
               <option value="1">Yes</option>
               <option value="0">No</option>
               </select>
              <div class="txt_field">
```

```
<input type="text" required>
 <span></span>
 <label>Op Area</label>
</div>
<label>Cuisine</label>
   <select id="cuisine" name="cuisine" class = "ih-form-control" required>
      <option value="0">Continental</option>
      <option value="1">Indian</option>
      <option value="2">Italian</option>
      <option value="3">Thai</option>
   </select>
<div class="txt_field">
 <input type="text" name="city_code" required>
 <span></span>
 <label>City Code</label>
</div>
<div class="txt_field">
 <input type="text" name="region_code" required>
 <span></span>
 <label>Region Code/label>
</div>
<label>Category</label>
   <select class = "ih-form-control" id="category" name="category" required>
      <option value="0">Beverages</option>
      <option value="1">Biryani</option>
      <option value="2">Desert</option>
      <option value="3">Extras</option>
      <option value="4">Fish</option>
      <option value="5">Other Snacks</option>
      <option value="6">Pasta</option>
      <option value="7">Pizza</option>
      <option value="8">Rice Bowl</option>
      <option value="9">Salad</option>
      <option value="10">Sandwich</option>
      <option value="11">Seafood</option>
```

```
<option value="12">Soup</option>
                 <option value="13">Starters</option>
              </select>
              <br>
              <input type="submit" value="Predict">
         </form>
        </div>
        <diV class="pred center1">
          Number of Orders:
               {{ prediction_text }}
            </diV>
          </div>
        </div>
  </section>
 <script src="../static/js/jquery.min.js"></script>
 <script src="../static/js/jquery-migrate-3.0.1.min.js"></script>
 <script src="../static/js/jquery.waypoints.min.js"></script>
 <script src="../static/js/jquery.stellar.min.js"></script>
 <script src="../static/js/owl.carousel.min.js"></script>
 <script src="../static/js/aos.js"></script>
 <script src="../static/js/scrollax.min.js"></script>
 <script src="../static/js/main.js"></script>
 </body>
</html>
```



Predicted Result:



Python Flask:

-*- coding: utf-8 -*-

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")
count = 0
app=Flask(__name__,template_folder="templates")
@app.route('/')
def index():
  return render_template('index.html')
@app.route('/index')
def about():
  return render_template('index.html')
@app.route('/index1')
def page():
  return render_template('predict.html',prediction_text=0)
@app.route('/predict', methods=['GET', 'POST'])
def predict():
  print("[INFO] loading model...")
  model = pickle.load(open('demand_forecast.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]
  return render_template("predict.html",prediction_text=int(output))
if __name__ == '__main__':
   app.run(debug=False)
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

PS C:\Users\Administrator\Downloads\IBM_CODE> flask run

* 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)

127.0.0.1 - [23/Nov/2022 15:33:36] "GET / HTTP/1.1" 200 -

127.0.0.1 - [23/Nov/2022 15:33:36] "GET / static/css/owl.carousel.min.css HTTP/1.1" 304 -

127.0.0.1 - [23/Nov/2022 15:33:36] "GET / static/css/animate.css HTTP/1.1" 304 -

127.0.0.1 - [23/Nov/2022 15:33:36] "GET / static/css/style.css HTTP/1.1" 304 -
```