Team ID : PNT2022TMID22701
Project name : A Novel Method for Handwritten Digit Recognition System

```
<html>
<head>
 <title>Digit Recognition WebApp</title>


 <meta name="viewport" content="width=device-width">
 <!-- GoogleFont -->
 <link
href="https://fonts.googleapis.com/css2?family=Prompt:wght@600&display=swap"
rel="stylesheet">
 <link
href="https://fonts.googleapis.com/css2?family=Varela+Round&display=swap"
rel="stylesheet">
 <link
href="https://fonts.googleapis.com/css2?family=Source+Code+Pro:wght@500&displ
ay=swap" rel="stylesheet">
 <link
href="https://fonts.googleapis.com/css?family=Calistoga|Josefin+Sans:400,700|
Pacifico&display=swap" rel="stylesheet">
 <!-- bootstrap -->
 <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.cs
s"
integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2
MZw1T" crossorigin="anonymous">
 <link rel="stylesheet" type= "text/css" href= "{{
url_for('static',filename='css/style.css') }}">
 <!-- fontawesome -->
 <script src="https://kit.fontawesome.com/b3aed9cb07.js"
crossorigin="anonymous"></script>


 <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"
integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi
6jizo" crossorigin="anonymous"></script>
 <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.j
s"
```

```
integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHN
Dz0W1" crossorigin="anonymous"></script>
 <script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B
07jRM" crossorigin="anonymous"></script>
 <script src="https://cdn.jsdelivr.net/npm/@tensorflow/tfjs@latest"></script>


</head>


<script>
 function preview() {
   frame.src=URL.createObjectURL(event.target.files[0]);
}


   $(document).ready(function() {
         $('#clear_button').on('click', function() {
             $('#image').val('');
             $('#frame').attr('src',"");
           });
       });


</script>


<body>


 <h1 class="welcome">IBM PROJECT
 <div id="team_id">TEAM ID : PNT2022TMID27424</div>
 </h1>
 <section id="title">
   <h4 class="heading">Handwritten Digit Recognition Website</h4>
   <br><br>
     <p>
```

```
       The website is designed to predict the handwritten digit.
     </p>
   <p>
       Handwriting recognition is one of the compelling research works going
on because every individual in this world
       has their own style of writing. It is the capability of the computer
to identify and understand
       handwritten digits or characters automatically. Because of the
progress in the field of science and technology,
       everything is being digitalized to reduce human effort.</p>


     <br>
   <p> Hence, there comes a need for handwritten digit recognition in many
real-time applications.
       MNIST data set is widely used for this recognition process and it has
70000 handwritten digits.
       We use Artificial neural networks to train these images and build a
deep learning model.
       Web application is created where the user can upload an image of a
handwritten digit.
       This image is analyzed by the model and the detected result is
returned on to UI</p>


 </section>


 <section id="content">


       <div class="leftside">
       <form action="/predict" method="POST" enctype="multipart/form-data">
       <label>Select a image:</label>
       <input id="image" type="file" name="image" accept="image/png,
image/jpeg" onchange="preview()"><br><br>
         <img id="frame" src="" width="100px" height="100px"/>
         <div class="buttons_div">
           <button type="submit" class="btn btn-dark"
id="predict_button">Predict</button>
           <button type="button" class="btn btn-dark" id="clear_button"> 
Clear  </button>
```

```
          </div>
        </form>
        </div>
 </section>


</body>


</html>
```