Index.html

<html>

<head>

 <title>Digit Recognition Website</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&display=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.css" integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" 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+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

 <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integrity="sha384-

```html
UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1"
crossorigin="anonymous"></script>

  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
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>
<style>
.header {         position: relative;
                  top:0;
                  margin:0px;
                  z-index: 1;
                  left: 0px;
                  right: 0px;
```

```css
                    position: fixed;

                    background-color: rgba(100, 100, 100, 0.5) ;

                    color: white;

                    box-shadow: 0px 8px 4px grey;

                    overflow: hidden;

                    padding-left:20px;

                    font-family: 'Josefin Sans';

                    font-size: 2vw;

                    width: 100%;

                    height:8%;

                    text-align: center;

            }
            .topnav {
  overflow: hidden;

  background-color: #FCAD98;

}


body {

background-image: url('static/images/img2.jpg');


  background-repeat: no-repeat;

  background-attachment: fixed;

  background-size: cover;

}



.topnav-right a {
```

```css
    float: left;

    color: black;

    text-align: center;

    padding: 14px 16px;

    text-decoration: none;

    font-size: 18px;

}


.topnav-right a:hover {

    background-color: #FCAD98;

    color: black;

}


.topnav-right a.active {

    background-color: #FCAD98;

    color: white;

}


.topnav-right {

    float: right;

    padding-right:100px;

}


body {


    background-color: ;

    background-repeat: no-repeat;
```

```css
    background-size:cover;


      background-size: cover;

    background-position: 0px 0px;

    }

    span.psw {

    float: right;

    padding-top: 16px;

    font-size:5-px

}


/* Change styles for span and cancel button on extra small screens */

@media screen and (max-width: 300px) {

    span.psw {

        display: block;

        float: none;

    }
    /* Caption text */

.text {

    color: #f2f2f2;

    font-size: 15px;

    padding: 8px 12px;

    position: absolute;

    bottom: 8px;

    width: 100%;

    text-align: center;

}
```

```css
/* The dots/bullets/indicators */

.dot {
  height: 15px;
  width: 15px;
  margin: 0 2px;
  background-color: #bbb;
  border-radius: 50%;
  display: inline-block;
  transition: background-color 0.6s ease;
}


.active {
  background-color: #FCAD98;
}


/* Fading animation */
.fade {
  -webkit-animation-name: fade;
  -webkit-animation-duration: 1.5s;
  animation-name: fade;
  animation-duration: 1.5s;
}


@-webkit-keyframes fade {
  from {opacity: .4}
  to {opacity: 1}
}
```

```css
@keyframes fade {

  from {opacity: .4}

  to {opacity: 1}

}


/* On smaller screens, decrease text size */

@media only screen and (max-width: 300px) {

  .text {font-size: 11px}

}




@import url("https://fonts.googleapis.com/css?family=Montserrat&display=swap");


* {

  padding: 0;

  margin: 0;

}


body {

  height: 100vh;

  display: flex;

  flex-direction: column;

  justify-content: center;

  align-items: center;

}
```

```css
h1 {

  font-family: "Montserrat Medium";

  max-width: 90ch;

  text-align: center;

  transform: scale(0.94);

  animation: scale 3s forwards cubic-bezier(0.5, 1, 0.89, 1);

}

@keyframes scale {

  100% {

    transform: scale(1);

  }

}


span {

  display: inline-block;

  opacity: 0;

  filter: blur(4px);

}


span:nth-child(1) {

  animation: fade-in 1s 0.1s forwards cubic-bezier(0.11, 0, 0.5, 0);

}


span:nth-child(2) {

  animation: fade-in 0.8s 0.2s forwards cubic-bezier(0.11, 0, 0.5, 0);

}
```

```css
span:nth-child(3) {

  animation: fade-in 0.8s 0.3s forwards cubic-bezier(0.11, 0, 0.5, 0);

}


span:nth-child(4) {

  animation: fade-in 0.8s 0.4s forwards cubic-bezier(0.11, 0, 0.5, 0);

}


span:nth-child(5) {

  animation: fade-in 0.8s 0.5s forwards cubic-bezier(0.11, 0, 0.5, 0);

}


span:nth-child(6) {

  animation: fade-in 0.8s 0.6s forwards cubic-bezier(0.11, 0, 0.5, 0);

}


span:nth-child(7) {

  animation: fade-in 0.8s 0.7s forwards cubic-bezier(0.11, 0, 0.5, 0);

}


span:nth-child(8) {

  animation: fade-in 0.8s 0.8s forwards cubic-bezier(0.11, 0, 0.5, 0);

}


span:nth-child(9) {

  animation: fade-in 0.8s 0.9s forwards cubic-bezier(0.11, 0, 0.5, 0);
```

```css
}

span:nth-child(10) {

  animation: fade-in 0.8s 1s forwards cubic-bezier(0.11, 0, 0.5, 0);

}


span:nth-child(11) {

  animation: fade-in 0.8s 1.1s forwards cubic-bezier(0.11, 0, 0.5, 0);

}


span:nth-child(12) {

  animation: fade-in 0.8s 1.2s forwards cubic-bezier(0.11, 0, 0.5, 0);

}


span:nth-child(13) {

  animation: fade-in 0.8s 1.3s forwards cubic-bezier(0.11, 0, 0.5, 0);

}


span:nth-child(14) {

  animation: fade-in 0.8s 1.4s forwards cubic-bezier(0.11, 0, 0.5, 0);

}


span:nth-child(15) {

  animation: fade-in 0.8s 1.5s forwards cubic-bezier(0.11, 0, 0.5, 0);

}


span:nth-child(16) {
```

```css
  animation: fade-in 0.8s 1.6s forwards cubic-bezier(0.11, 0, 0.5, 0);

}


span:nth-child(17) {

  animation: fade-in 0.8s 1.7s forwards cubic-bezier(0.11, 0, 0.5, 0);

}


span:nth-child(18) {

  animation: fade-in 0.8s 1.8s forwards cubic-bezier(0.11, 0, 0.5, 0);

}

span:nth-child(19) {

  animation: fade-in 0.8s 1.9s forwards cubic-bezier(0.11, 0, 0.5, 0);

}

span:nth-child(20) {

  animation: fade-in 0.8s 2.0s forwards cubic-bezier(0.11, 0, 0.5, 0);

}

span:nth-child(21) {

  animation: fade-in 0.8s 2.1s forwards cubic-bezier(0.11, 0, 0.5, 0);

}

span:nth-child(22) {

  animation: fade-in 0.8s 2.2s forwards cubic-bezier(0.11, 0, 0.5, 0);

}

span:nth-child(23) {

  animation: fade-in 0.8s 2.3s forwards cubic-bezier(0.11, 0, 0.5, 0);

}span:nth-child(24) {

  animation: fade-in 0.8s 2.4s forwards cubic-bezier(0.11, 0, 0.5, 0);

}span:nth-child(25) {
```

```
    animation: fade-in 0.8s 2.5s forwards cubic-bezier(0.11, 0, 0.5, 0);

}span:nth-child(26) {

    animation: fade-in 0.8s 2.6s forwards cubic-bezier(0.11, 0, 0.5, 0);

}span:nth-child(27) {

    animation: fade-in 0.8s 2.7s forwards cubic-bezier(0.11, 0, 0.5, 0);

}span:nth-child(28) {

    animation: fade-in 0.8s 2.8s forwards cubic-bezier(0.11, 0, 0.5, 0);

}
@keyframes fade-in {

  100% {

    opacity: 1;

    filter: blur(0);

  }
}


  </style>


<body >


</style>




<div style="width:50%;float:left;font-size:2vw;text-align:center;color:mediumSeaGreen; padding-top:1%;padding-left:5%;"><b>NOVEL HANDWRITTEN DIGIT RECOGNITION<b></div>

  <div class="topnav-right"style="padding-top:0.5%;">
```

```html
<h1 style="color:black">

<p style="font-size:30px" style="text-align:center"><b><span> The handwritten digit recognition
is the </span> <span> ability of computers to recognize human handwritten digits. </span>
<span>

It is a hard task for the machine </span > <span>  because handwritten digits are not
perfect</span> <span>and can be made with many different flavors.

</span> <span>  There are a number of ways and algorithms to recognize handwritten digits,
</span> <span> including Deep Learning/CNN, SVM, </span > <span>

Gaussian Naive Bayes, KNN, Decision Trees, Random Forests, etc.</span>

<span> MNIST is a dataset consisting of 70,000 black-and-white</span> <span> images of
handwritten digits.</span> </b>




</h1>





<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">&nbsp Clear
&nbsp</button>
```

</div>

        </form>

        </div>

    </section>

</body>

</html>

Predict.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Prediction</title>

</head>

<style>

    body {

background-image: url('static/images/img1.jpg');

  background-repeat: no-repeat;

  background-attachment: fixed;

  background-size: cover;

}

```css
#rectangle{

 width:400px;

 height:150px;

 background-color: #5796a5;

 border-radius: 25px;

 position:absolute;

 top:25%;

 left:50%;

 transform:translate(-50%,-50%);

 }


 #ans{

text-align: center;

font-size: 40px;

margin: 0 auto;

padding: 3% 5%;

padding-top: 15%;

color: white;

 }
```
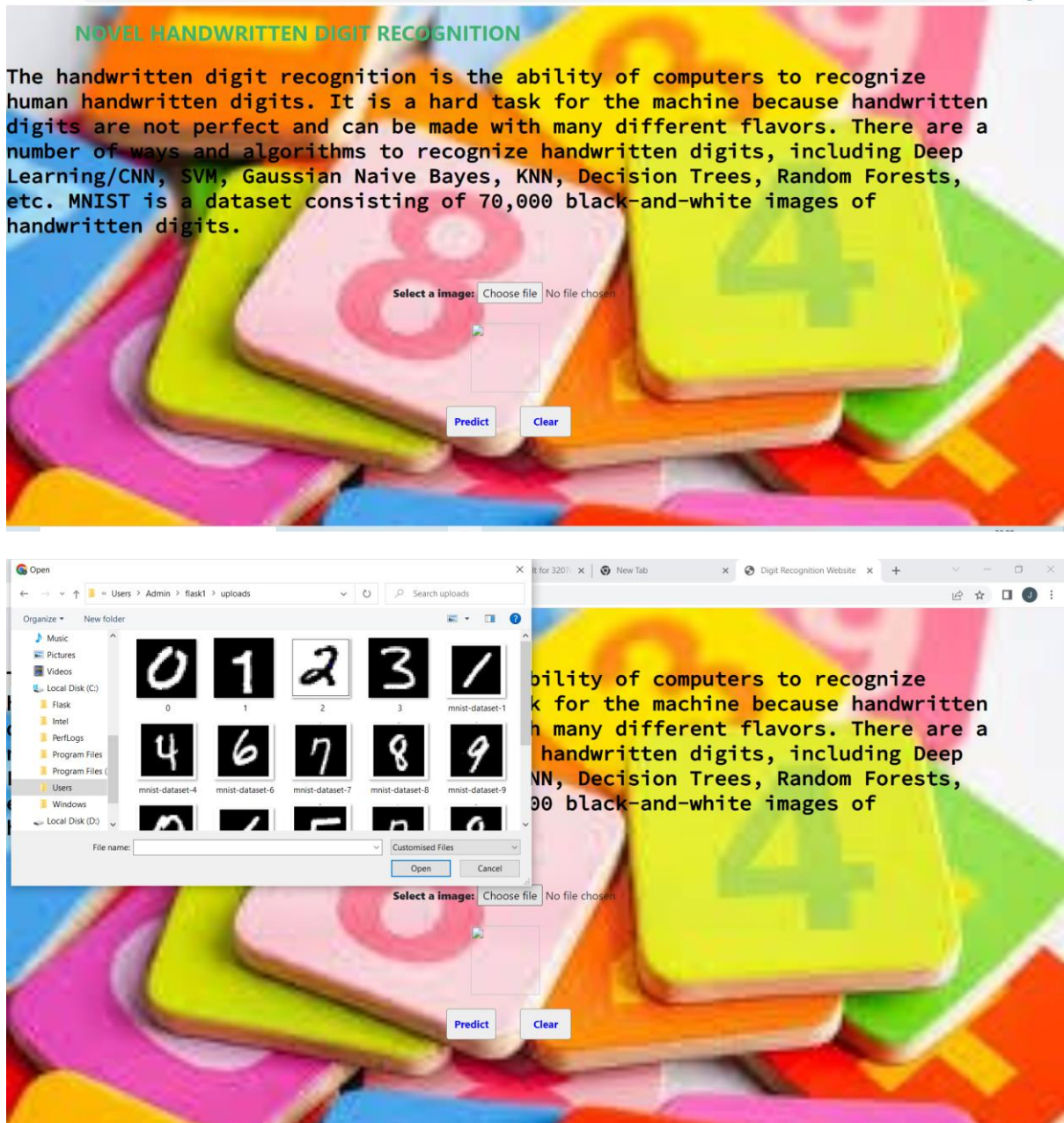
```html
</style>
<body>
  <div id="rectangle">
    <h1 id="ans">Predicted Number : {{num}}</h1>
  </div>
</body>
```
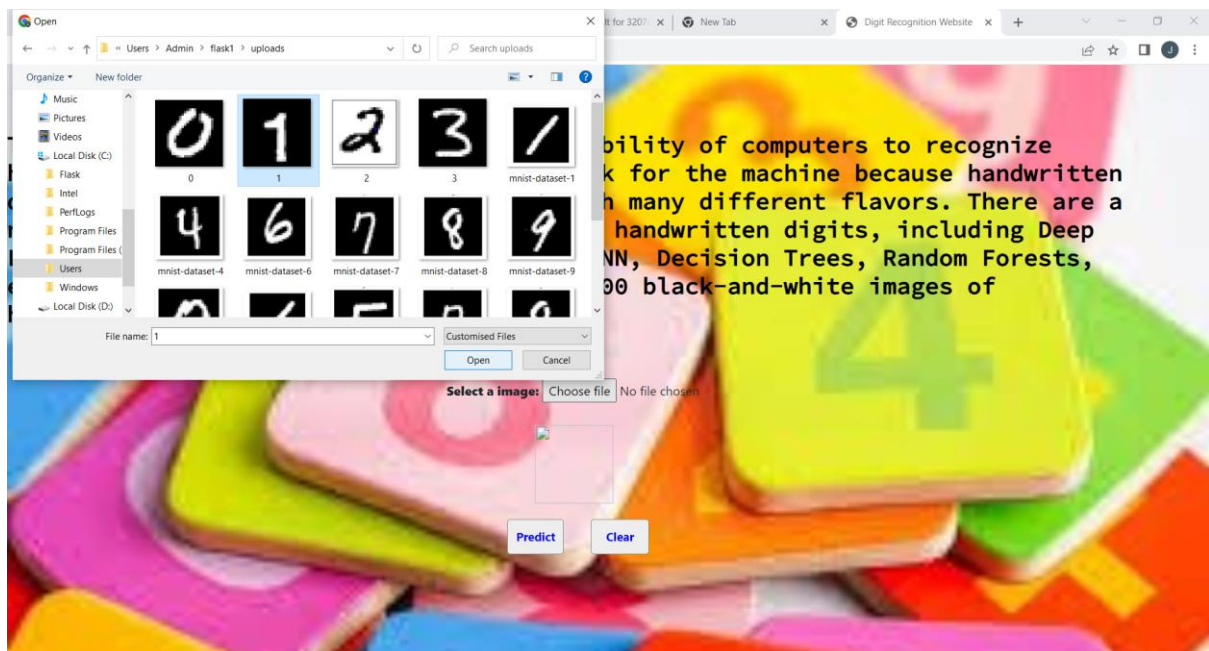
</html>

Output screenshot

NOVEL HANDWRITTEN DIGIT RECOGNITION

The handwritten digit recognition is the ability of computers to recognize human handwritten digits. It is a hard task for the machine because handwritten digits are not perfect and can be made with many different flavors. There are a number of ways and algorithms to recognize handwritten digits, including Deep Learning/CNN, SVM, Gaussian Naive Bayes, KNN, Decision Trees, Random Forests, etc. MNIST is a dataset consisting of 70,000 black-and-white images of handwritten digits.

Select a image: Choose file 1.png

Predict   Clear

Predicted Number :
1