

Sprint – 4

Front end web application development

Team ID	PNT2022TMID13660
Project Name	Fertilizer recommendation system for disease prediction

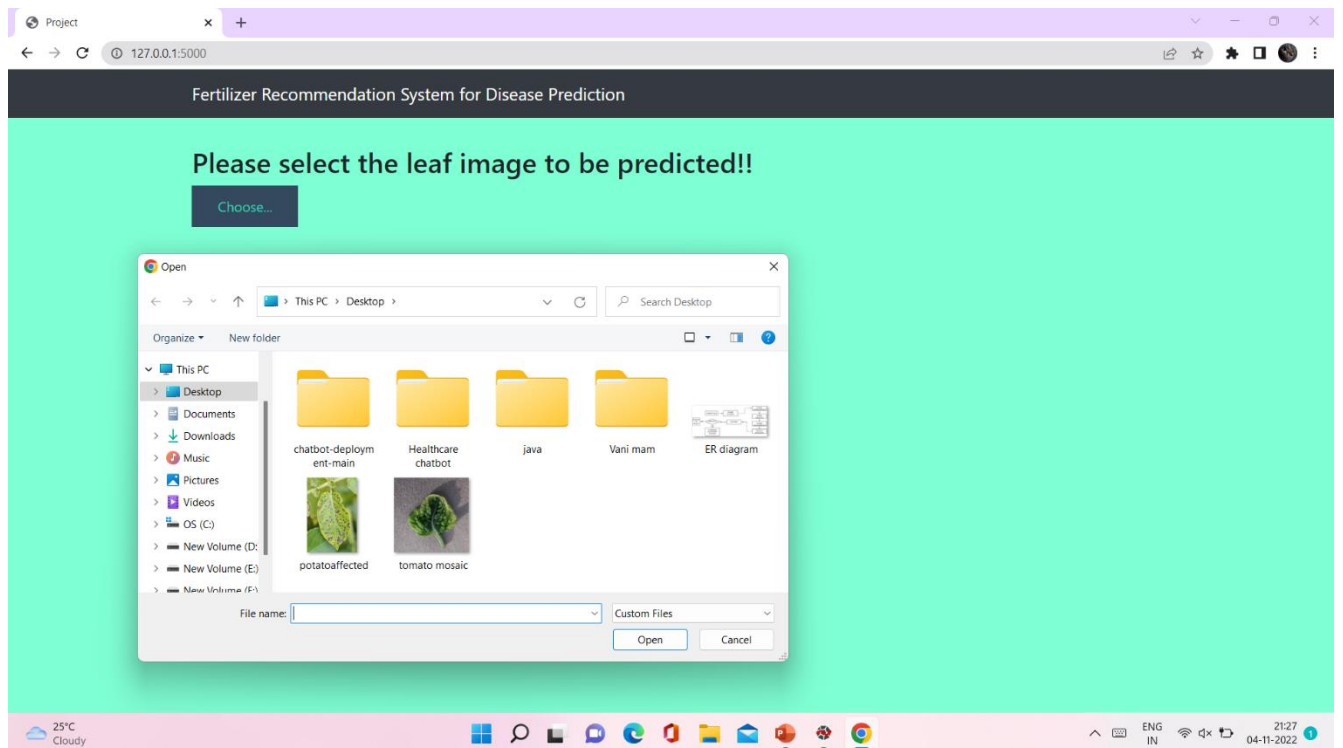
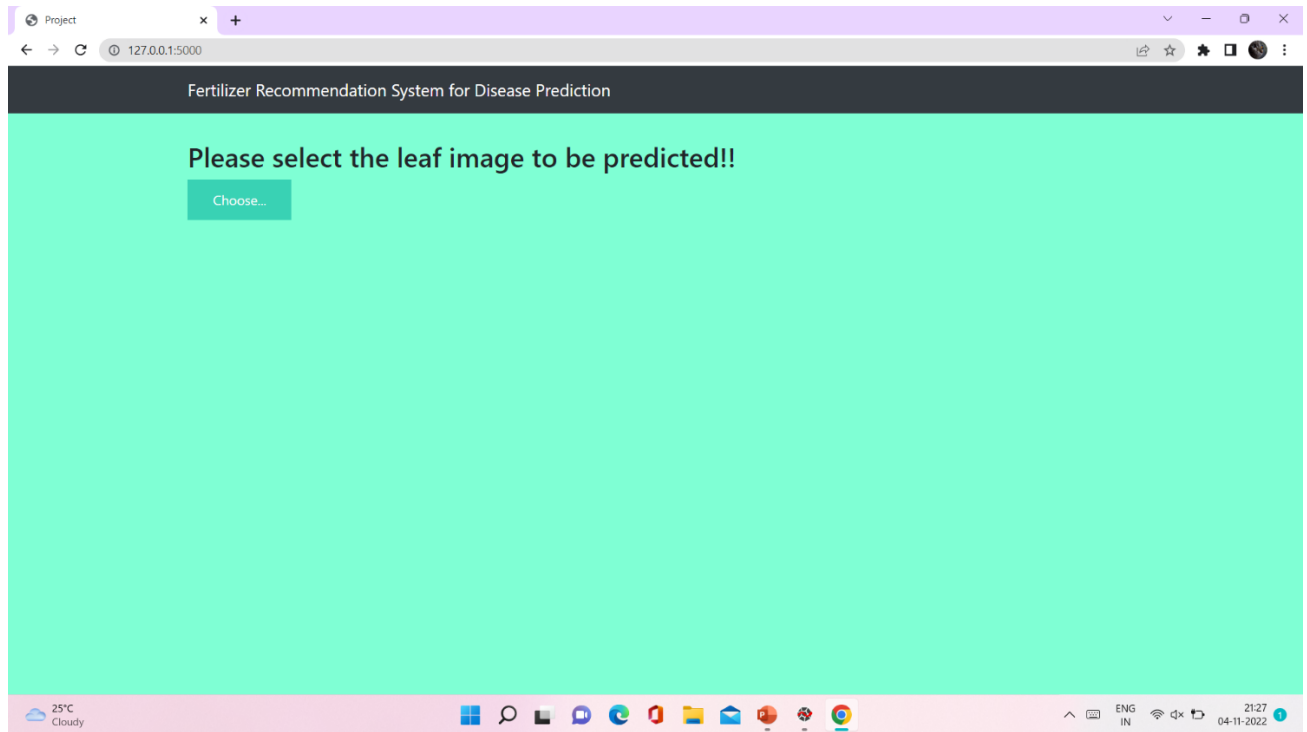
Build HTML Pages

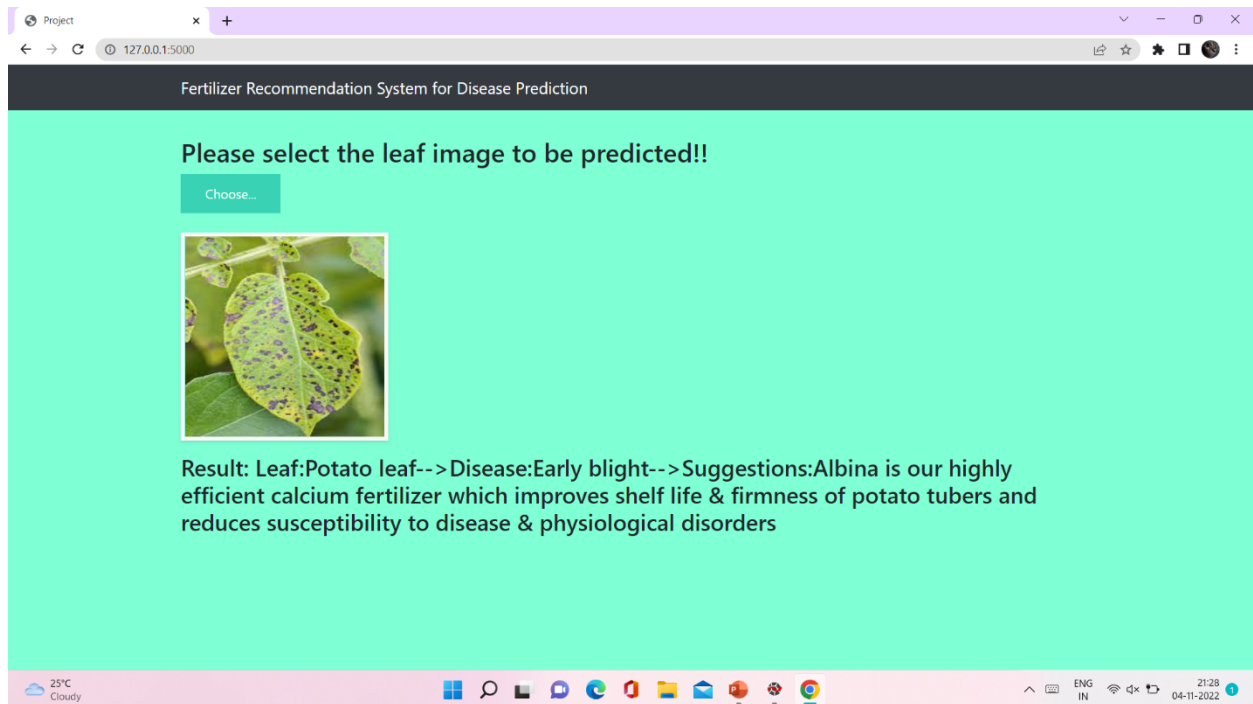
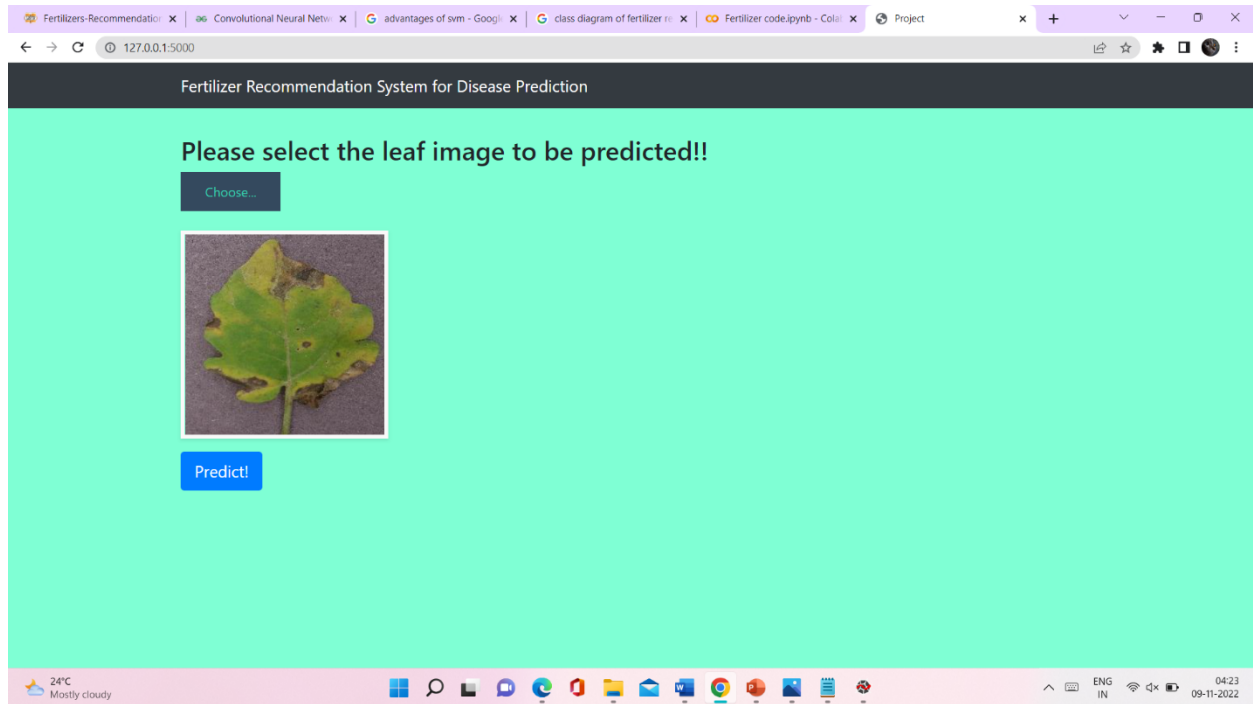
Build the UI where a home page will have details about the application, a prediction page where a user is allowed to browse an image and get the predictions.

Open the browser and navigate to localhost to check your web application.

The home page looks like this.

*** Running the application on <http://127.0.0.1:5000>**






Fertilizers-Recommendation x Convolutional Neural Netw x advantages of svm - Googl x class diagram of fertilizer re x Fertilizer code.ipynb - Colab x Project

127.0.0.1:5000

Fertilizer Recommendation System for Disease Prediction

Please select the leaf image to be predicted!!

Choose...



Result: Leaf:Potato leaf-->Disease:Early blight-->Suggestions:Albina is our highly efficient calcium fertilizer which improves shelf life & firmness of potato tubers and reduces susceptibility to disease & physiological disorders

24°C Mostly cloudy 04:23 09-11-2022


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127.0.0.1:5000

Fertilizer Recommendation System for Disease Prediction

Please select the leaf image to be predicted!!

Choose...



Result: Leaf:Tomato-->Disease:Two spotted spider mite-->Suggestion:Apply a miticide spray if mite damage and mites are present on 50 per cent of the leaves and predators are not present.This will effectively control the spread

24°C Mostly cloudy 04:23 09-11-2022

Index.html

```
{% extends "base.html" %} {% block content %}
```

```
<h2>Please select the leaf image to be predicted!!</h2>
```

```
<div>
```

```
  <form id="upload-file" method="post" enctype="multipart/form-data">
```

```
    <label for="imageUpload" class="upload-label">
```

```
      Choose...
```

```
    </label>
```

```
    <input type="file" name="file" id="imageUpload" accept=".png, .jpg, .jpeg">
```

```
  </form>
```

```
<div class="image-section" style="display:none;">
```

```
  <div class="img-preview">
```

```
    <div id="imagePreview">
```

```
      </div>
```

```
    </div>
```

```
  <div>
```

```
    <button type="button" class="btn btn-primary btn-lg " id="btn-  
predict">Predict!</button>
```

```
  </div>
```

```
</div>
```

```
<div class="loader" style="display:none;"></div>
```

```
<h3 id="result">
    <span> </span>
</h3>
```

```
</div>
```

```
{ % endblock % }
```

Base.html

```
<html lang="en">
```

```
<head>
```

```
    <meta charset="UTF-8">
```

```
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
```

```
    <title>Project</title>
```

```
    <link      href="https://cdn.bootcss.com/bootstrap/4.0.0/css/bootstrap.min.css"
rel="stylesheet">
```

```
    <script
src="https://cdn.bootcss.com/popper.js/1.12.9/umd/popper.min.js"></script>
```

```
    <script src="https://cdn.bootcss.com/jquery/3.3.1/jquery.min.js"></script>
```

```
    <script
src="https://cdn.bootcss.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
```

```
    <link href="{ { url_for('static', filename='css/main.css') } }" rel="stylesheet">
```

```
    <style>
```

```
        body{
```

```
            background-color:aquamarine;
```

```

    }
</style>
</head>

<body>
    <nav class="navbar navbar-dark bg-dark">
        <div class="container">
            <a class="navbar-brand" href="#">Fertilizer Recommendation System for
Disease Prediction</a>
        </div>
    </nav>
    <div class="container">
        <div id="content" style="margin-top:2em">{% block content %}{% endblock
%}</div>
    </div>
</body>

<footer>
    <script src="{ { url_for('static', filename='js/main.js') }}"
type="text/javascript"></script>
</footer>

</html>

```

Main.css

```

.img-preview {
    width: 256px;

```

```
    height: 256px;
    position: relative;
    border: 5px solid #F8F8F8;
    box-shadow: 0px 2px 4px 0px rgba(0, 0, 0, 0.1);
    margin-top: 1em;
    margin-bottom: 1em;
}

.img-preview>div {
    width: 100%;
    height: 100%;
    background-size: 256px 256px;
    background-repeat: no-repeat;
    background-position: center;
}

input[type="file"] {
    display: none;
}

.upload-label{
    display: inline-block;
    padding: 12px 30px;
    background: #39D2B4;
    color: #fff;
    font-size: 1em;
    transition: all .4s;
    cursor: pointer;
}

.upload-label:hover{
    background: #34495E;
    color: #39D2B4;
}

.loader {
    border: 8px solid #f3f3f3; /* Light grey */
    border-top: 8px solid #3498db; /* Blue */
    border-radius: 50%;
    width: 50px;
    height: 50px;
    animation: spin 1s linear infinite;
}
```



```
@keyframes spin {
  0% { transform: rotate(0deg); }
  100% { transform: rotate(360deg); }
}
```

Main.js

```
$(document).ready(function () {
  // Init
  $('.image-section').hide();
  $('.loader').hide();
  $('#result').hide();

  // Upload Preview
  function readURL(input) {
    if (input.files && input.files[0]) {
      var reader = new FileReader();
      reader.onload = function (e) {
        $('#imagePreview').css('background-image', 'url(' +
e.target.result + ')');
        $('#imagePreview').hide();
        $('#imagePreview').fadeIn(650);
      }
      reader.readAsDataURL(input.files[0]);
    }
  }
  $("#imageUpload").change(function () {
    $('.image-section').show();
    $('#btn-predict').show();
    $('#result').text('');
    $('#result').hide();
    readURL(this);
  });

  // Predict
  $('#btn-predict').click(function () {
    var form_data = new FormData($('#upload-file')[0]);

    // Show loading animation
    $(this).hide();
    $('.loader').show();

    // Make prediction by calling api /predict
    $.ajax({
```

```
type: 'POST',
url: '/predict',
data: form_data,
contentType: false,
cache: false,
processData: false,
async: true,
success: function (data) {
    // Get and display the result
    $('.loader').hide();
    $('#result').fadeIn(600);
    $('#result').text(' Result:  ' + data);
    console.log('Success!');
},
});
});
});
```