

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Smart Sorting: Rotten Fruits & Vegetables Detection</title>

  <style>

    /* Basic CSS for styling */

    body {

      font-family: Arial, sans-serif;

      margin: 0;

      padding: 0;

      background-color: #f4f4f4;

      color: #333;

    }

    header {

      background-color: #4CAF50;

      color: white;

      text-align: center;

      padding: 2rem;

    }

    nav {

      background-color: #333;

      padding: 1rem;

    }

    nav a {

      color: white;

      margin: 0 1rem;
```

```
    text-decoration: none;

    font-weight: bold;
}

nav a:hover {

    color: #4CAF50;
}

.container {

    max-width: 1200px;

    margin: 0 auto;

    padding: 2rem;
}

.upload-section, .about-section, .results-section {

    background-color: white;

    padding: 2rem;

    margin-bottom: 2rem;

    border-radius: 8px;

    box-shadow: 0 2px 5px rgba(0,0,0,0.1);
}

.upload-section input[type="file"] {

    margin: 1rem 0;
}

.upload-section button {

    background-color: #4CAF50;

    color: white;

    padding: 0.5rem 1rem;

    border: none;

    border-radius: 4px;

    cursor: pointer;
}
```

```
}

.upload-section button:hover {

    background-color: #45a049;

}

#result {

    margin-top: 1rem;

    font-weight: bold;

}

footer {

    background-color: #333;

    color: white;

    text-align: center;

    padding: 1rem;

    position: fixed;

    width: 100%;

    bottom: 0;

}

@media (max-width: 768px) {

    .container {

        padding: 1rem;

    }

    nav a {

        display: block;

        margin: 0.5rem 0;

    }

}

</style>

</head>
```

```
<body>

  <header>

    <h1>Smart Sorting: Rotten Fruits & Vegetables Detection</h1>

    <p>Using Transfer Learning to Identify Fresh vs. Rotten Produce</p>

  </header>


  <nav>

    <a href="#home">Home</a>

    <a href="#upload">Upload Image</a>

    <a href="#about">About</a>

    <a href="#contact">Contact</a>

  </nav>


  <div class="container">

    <!-- Upload Section -->

    <section id="upload" class="upload-section">

      <h2>Upload an Image</h2>

      <p>Select an image of a fruit or vegetable to check if it's fresh or rotten.</p>

      <form id="upload-form">

        <input type="file" id="image-input" accept="image/*" required>

        <button type="submit">Analyze Image</button>

      </form>

      <div id="result" class="results-section">

        <!-- Results will be displayed here -->

      </div>

    </section>


    <!-- About Section -->

  </div>

</body>
```

```
<section id="about" class="about-section">
```

```
<h2>About the Project</h2>
```

```
<p>
```

This project utilizes transfer learning with a pre-trained deep learning model to classify fruits and vegetables as fresh or rotten.

By leveraging models like VGG16 or ResNet, we fine-tune the network to accurately detect spoilage, aiding in smart sorting for agriculture and food industries.

```
</p>
```

```
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Upload an image, and our model will predict the condition of the produce with high accuracy.

```
</p>
```

```
</section>
```

```
</div>
```

```
<footer>
```

```
<p>&copy; 2025 Smart Sorting Project. All rights reserved.</p>
```

```
<p>Contact: <a href="mailto:info@smartsorting.com" style="color:
#4CAF50;">info@smartsorting.com</a></p>
```

```
</footer>
```

```
<script>
```

```
// JavaScript for handling form submission and displaying results
```

```
document.getElementById('upload-form').addEventListener('submit', function(event) {
    event.preventDefault();
```

```
    const fileInput = document.getElementById('image-input');
```

```
    const resultDiv = document.getElementById('result');
```

```

    if (fileInput.files.length === 0) {
        resultDiv.innerHTML = '<p style="color: red;">Please select an image.</p>';
        return;
    }

    // Placeholder for model inference
    resultDiv.innerHTML = '<p>Processing image...</p>';

    // Simulate model prediction (replace with actual API call or ML model integration)
    setTimeout(() => {
        // Example result (replace with actual model output)
        const isRotten = Math.random() > 0.5; // Mock prediction
        resultDiv.innerHTML = `
            <p>Result: The fruit/vegetable is <strong>${isRotten ? 'Rotten' :
'Fresh'}</strong></p>
            <p>Confidence: ${((Math.random() * 100).toFixed(2))}%</p>
        `;
    }, 2000); // Simulate processing delay
});
</script>
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    <p>Using Transfer Learning to Identify Fresh vs. Rotten Produce</p>

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  <nav>

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    <a href="#upload">Upload Image</a>

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    <!-- Upload Section -->

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