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Domain selected:AI/ml

Batch name:2

Task title :Loan prediction model

Objective: Easy predictions

Code:

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <meta charset="UTF-8">
    <title>Loan Prediction Model</title>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <!-- ===== CSS START ===== -->
    <style>
      body {
        font-family: Arial, sans-serif;
        background: #f2f2f2;
        margin: 0;
        padding: 0;
      }

      .container {
```

```
max-width: 460px;  
margin: 50px auto;  
background: #ffffff;  
padding: 25px;  
border-radius: 8px;  
box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);  
}
```

```
h1 {  
    text-align: center;  
    color: #333;  
    margin-bottom: 20px;  
}
```

```
.field {  
    margin-bottom: 15px;  
}
```

```
.field label {  
    display: block;  
    font-weight: bold;  
    margin-bottom: 5px;  
}
```

```
.field input,  
.field select {  
    width: 100%;  
    padding: 8px;
```

```
border: 1px solid #aaa;  
border-radius: 4px;  
font-size: 16px;  
}
```

```
button {  
width: 100%;  
padding: 12px;  
background: #007bff;  
border: none;  
color: #fff;  
font-size: 18px;  
border-radius: 6px;  
cursor: pointer;  
}
```

```
button:hover {  
background: #0056b3;  
}
```

```
#result {  
margin-top: 20px;  
font-size: 18px;  
text-align: center;  
font-weight: bold;  
}
```

```
</style>  
<!-- ===== CSS END ===== -->
```

```
</head>
```

```
<body>
```

```
  <div class="container">
```

```
    <h1>Loan Approval Prediction</h1>
```

```
    <form id="loanForm">
```

```
      <div class="field">
```

```
        <label>Annual Income (₹)</label>
```

```
        <input type="number" id="income" required>
```

```
      </div>
```

```
      <div class="field">
```

```
        <label>Credit Score</label>
```

```
        <input type="number" id="creditScore" required>
```

```
      </div>
```

```
      <div class="field">
```

```
        <label>Employment Type</label>
```

```
        <select id="employment" required>
```

```
          <option value="">Select</option>
```

```
          <option value="salaried">Salaried</option>
```

```
          <option value="self-employed">Self Employed</option>
```

```
          <option value="unemployed">Unemployed</option>
```

```
        </select>
```

```
      </div>
```

```
<div class="field">
    <label>Loan Amount (₹)</label>
    <input type="number" id="loanAmount" required>
</div>

<button type="submit">Predict Loan</button>
</form>

<div id="result"></div>
</div>

<!-- ===== JAVASCRIPT START ===== -->
<script>

document.getElementById("loanForm").addEventListener("submit", function(e) {
    e.preventDefault();

    const income = Number(document.getElementById("income").value);
    const creditScore = Number(document.getElementById("creditScore").value);
    const employment = document.getElementById("employment").value;
    const loanAmount = Number(document.getElementById("loanAmount").value);

    let score = 0;

    if (income > 500000) score += 3;
    if (creditScore > 700) score += 4;
    if (employment === "salaried") score += 3;
    if (loanAmount < income * 0.5) score += 2;

})</script>
```

```

const result = document.getElementById("result");

if (score >= 7) {
    result.textContent = "✓ Loan Approved";
    result.style.color = "green";
} else {
    result.textContent = "✗ Loan Rejected";
    result.style.color = "red";
}
});

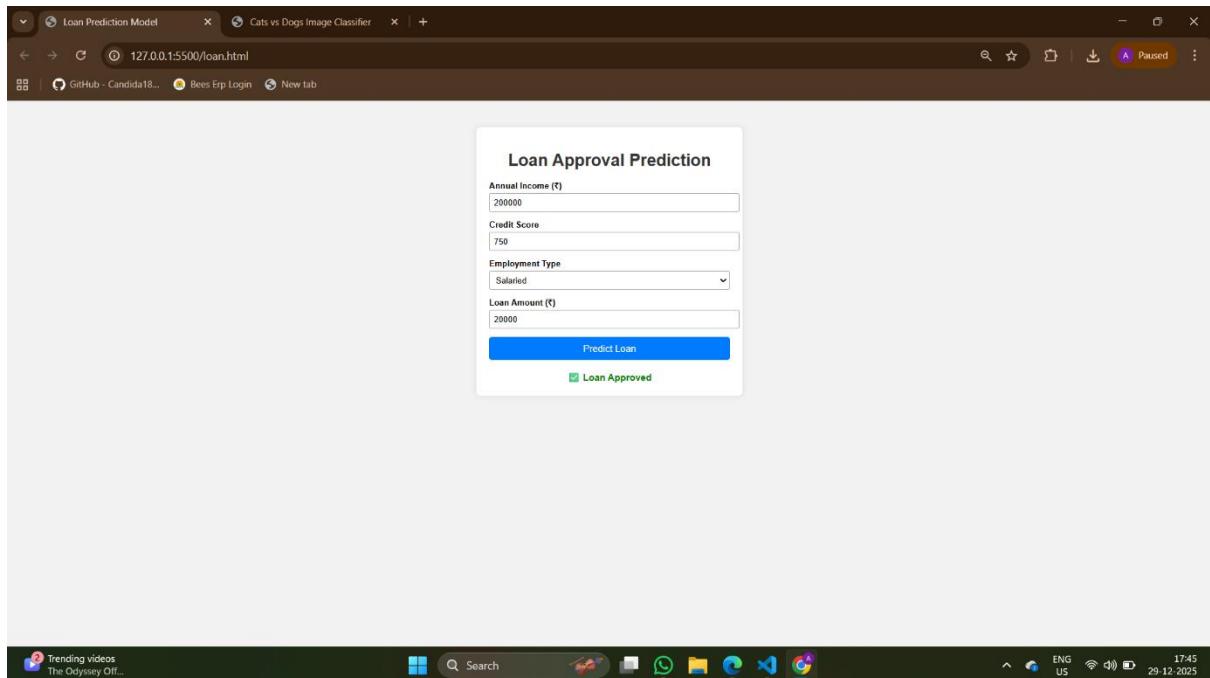
</script>

<!-- ===== JAVASCRIPT END ===== -->

</body>
</html>

```

Output:



Task:Identifying cat or dog

Objective:simple identification for computer understanding

Code:

```
<!DOCTYPE html>

<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Cats vs Dogs Image Classifier</title>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <!-- ===== CSS ===== -->
    <style>
        body {
            font-family: Arial, sans-serif;
            background: #eef2f3;
            margin: 0;
            padding: 0;
        }

        .container {
            max-width: 500px;
            margin: 50px auto;
            background: #ffffff;
            padding: 25px;
            border-radius: 10px;
            box-shadow: 0 0 15px rgba(0,0,0,0.1);
        }
    </style>

```

```
    text-align: center;  
}  
  
  


# 

color: #333;  
margin-bottom: 15px;  
}  
  
  
input[type="file"] {  
margin: 15px 0;  
}  
  
  
img {  
max-width: 100%;  
max-height: 250px;  
margin-top: 15px;  
border-radius: 8px;  
display: none;  
}  
  
  
button {  
margin-top: 15px;  
padding: 12px 20px;  
font-size: 16px;  
background: #007bff;  
color: #fff;  
border: none;  
border-radius: 6px;
```

```
        cursor: pointer;  
    }  
  
    button:hover {  
        background: #0056b3;  
    }  
  
    #result {  
        margin-top: 20px;  
        font-size: 20px;  
        font-weight: bold;  
    }  
  
.note {  
    margin-top: 15px;  
    font-size: 14px;  
    color: #666;  
}  
</style>  
</head>  
  
<body>  
  
<div class="container">  
    <h1>Cats vs Dogs Classifier</h1>  
    <p>Upload an image to predict whether it is a Cat or a Dog</p>  
  
<input type="file" id="imageInput" accept="image/*">
```

```
<img id="preview">

<br>

<button onclick="predict()">Predict</button>

<div id="result"></div>

<div class="note">
    * Demo prediction. Real projects use CNN models.
</div>
</div>

<!-- ===== JAVASCRIPT ===== -->

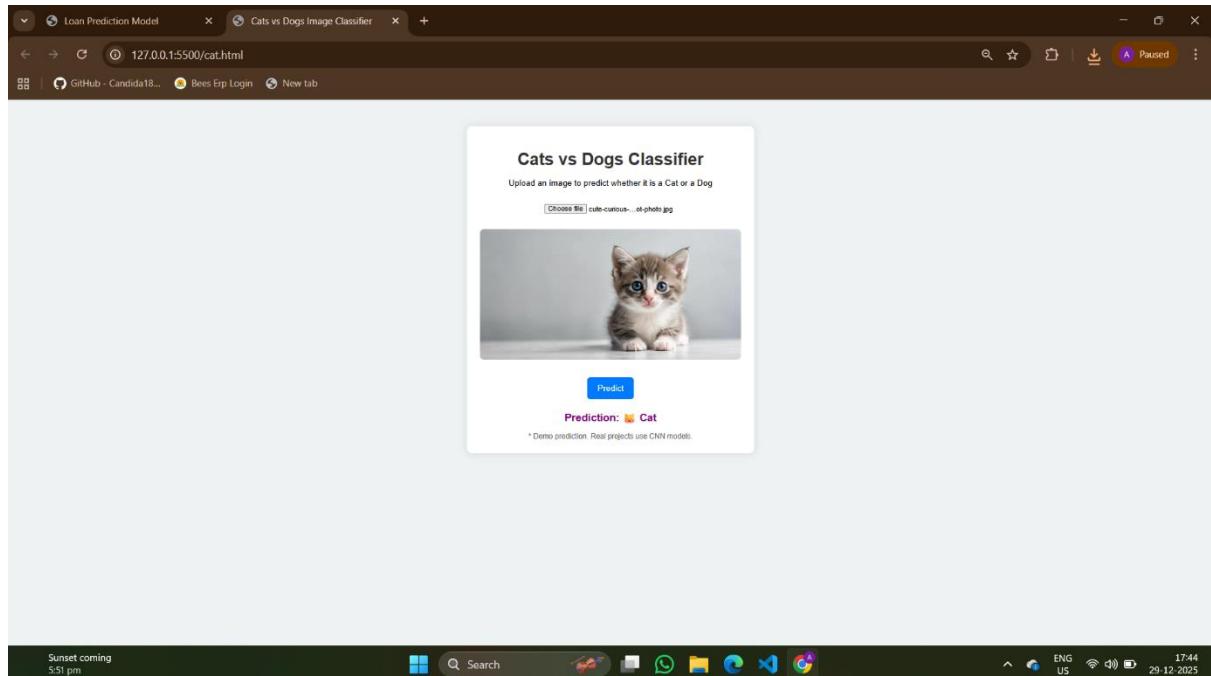
<script>

    const imageInput = document.getElementById("imageInput");
    const preview = document.getElementById("preview");
    const result = document.getElementById("result");

    imageInput.addEventListener("change", function () {
        const file = this.files[0];
        if (file) {
            preview.src = URL.createObjectURL(file);
            preview.style.display = "block";
            result.textContent = "";
        }
    });
</script>
```

```
function predict() {  
    if (!imageInput.files.length) {  
        alert("Please upload an image first");  
        return;  
    }  
  
    // Mock logic (random prediction for demo)  
    const prediction = Math.random() > 0.5 ? "🐶 Dog" : "🐱 Cat";  
  
    result.textContent = "Prediction: " + prediction;  
    result.style.color = prediction.includes("Dog") ? "green" : "purple";  
}  
</script>  
  
</body>  
</html>
```

Output:



What I Learned

From developing the **Loan Prediction Model** and the **Cats vs Dogs Image Classifier**, I gained practical knowledge of how machine learning concepts are applied in real-world applications. I learned how user data is collected through web forms and processed to generate predictions. In the loan prediction project, I understood how factors such as income, credit score, employment type, and loan amount influence decision-making models.

In the image classifier project, I learned the basics of computer vision, image input handling, and how convolutional neural networks (CNNs) are used to classify images based on learned features. I also improved my skills in HTML, CSS, and JavaScript by building interactive and user-friendly interfaces. Overall, these projects helped me understand the complete workflow from data input to prediction output.

Conclusion

In conclusion, both projects demonstrate the effective use of machine learning concepts in solving practical problems. The **Loan Prediction Model** helps in automating and simplifying loan approval decisions, while the **Cats vs Dogs Image Classifier** showcases the power of computer vision in image-based classification tasks. Although the current implementations use demo logic, they provide a strong foundation for integrating real machine learning models in the future. These projects enhanced my technical skills, improved my understanding of machine learning applications, and prepared me to work on more advanced AI-based systems.