LABORATORY REPORT

Application Development Lab
(CS33002)

B.Tech Program in ECSc

Submitted By

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(Deemed to be University)
Bhubaneswar, India

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Exp No.	Title	Date of Experiment	Date of Submission	Remarks
1.	Portfolio	07/01/25	13/01/25	
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7.				
8.				
9.	Open Ended 1			
10.	Open Ended 2			

Experiment Number	!
Experiment Title	Portfolio
Date of Experiment	07/01/25
Date of Submission	13/01/25

1. **Objective:- Create a portfolio**

2. **Procedure:-** Here are the steps followed to create the project:
   A. Set up the HTML structure, including the navigation, header, about, projects, and contact sections.
   B. Added links to external CSS and Font Awesome for icons.
   C. Created a "projects" section with images and descriptions of two projects.
   D. Added a JavaScript function to handle tab navigation for the "About Me" section.
   E. Implemented a slider for the projects, allowing users to navigate through them with "Next" and "Previous" buttons.
   F. Added event listeners to control the slider's behavior (changing displayed project).
   G. Used Google Sheets API to handle form submissions and send messages.
   H. Styled the project with CSS to adjust layout, images, and elements visually.

3. **Code:-**

HTML and Javascript Code

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>My Portfolio</title>
    <link rel="stylesheet" href="styles.css">
        <script src="https://kit.fontawesome.com/1f04c814a7.js"
crossorigin="anonymous"></script>
</head>
<body>
```

```html
    <header id="header">
        <div class="container">


<!--------------------------------navigation---------------------------------
----------------->
            <nav>
                                                                      <img
src="C:\Users\KIIT\Desktop\AD_LAB\images\Logo.png"        alt="Logo"
class="logo">
                <ul>
                    <li><a href="#header">Home</a></li>
                    <li><a href="#about">About</a></li>
                    <li><a href="#My-Project">Projects</a></li>
                    <li><a href="#contact">Contact</a></li>
                </ul>
            </nav>
            <div class="header-text">
                    <h1>Hi, I'm <span>Soumit</span><br> Roy From
India </h1>
                <img class="image" src="profile.png">
            </div>
        </div>
    </header>

                        <!----------------------   About    Section
-------------------------------->
    <div id="about">
        <div class="container">
            <div class="row">
                <div class="about-col-1">
                                                                      <img
src="C:/Users/KIIT/Desktop/AD_LAB/images/About.png">
                </div>
                <div class="about-col-2">
                    <h1 class="sub-title">About Me</h1>
                    <p>
                            Hi, I'm Soumit Roy, a curious mind
passionate about machine learning and always eager to explore new
ideas. With a strong foundation in Python, I enjoy solving
problems and diving deep into the world of technology.


                            Beyond coding, I have a deep love for
nature and find peace in its beauty. I'm also a people person who
```

```html
enjoys building meaningful friendships and learning from others'
experiences.
                    </p>
                    <div class="tab-titles">
                            <p class="tab-links active-link"
onclick="opentab('skills')">Skills</p>
                                <p class="tab-links"
onclick="opentab('experience')">Experience</p>
                                <p class="tab-links"
onclick="opentab('education')">Education</p>
                    </div>
                        <div class="tab-contents active-tab"
id="skills">
                        <ul>
                                    <li><span>Machine
Learning</span><br>Developed Machine Learning and Deep Learning
Projects</li>
                                    <li><span>Computer
Vision</span><br>Worked on Computer Vision Projects</li>
                            <li><span>Python</span><br>Developed
Python Projects</li>
                            <li><span>SQL</span><br>Experience in
MySQL and Database Management</li>
                                <li><span>Pandas</span><br>Worked
with Pandas for Data Analysis</li>
                            <li><span>Excel</span><br>Experience
with Data Manipulation in Excel</li>

<li><span>HTML/CSS</span><br>Developed       Front-End       HTML/CSS
Projects</li>
                        </ul>
                    </div>
                    <div class="tab-contents" id="experience">
                        <ul>
                            <li><span>2024</span><br>Part of
AICTE-EduSkills Virtual Internship Program</li>
                        </ul>
                    </div>
                    <div class="tab-contents" id="education">
                        <ul>

<li><span>2022-Current</span><br>B.Tech   in   Electronics   and
Computer Science Engineering</li>
```

```html
<li><span>2019-2021</span><br>Completed PCMB in Class 12</li>
                        </ul>
                    </div>
                </div>
            </div>
        </div>
<!---------------------projects----------------->
    <h1 id=My-Project class="sub-title-project">My Projects</h1>
    <div id="projects">
        <div class="container">
            <div class="slider">
                <div class="project-list">
                                    <img  class="project_img"
src="C:/Users\KIIT\Desktop\AD_LAB\images\handtracking.png">
                    <div>
                        <i class="fa-solid fa-volume-low"></i>
                        <h2>Computer Vision</h2>
                         <p>Designed and implemented a contactless
audio volume control system utilizing
                            hand tracking and gesture recognition
technologies, enabling
                                intuitive and efficient user
interaction.</p>
                                                            <a
href="https://github.com/Soumit2003/Volume-Control-Through-Hand-T
racking-and-Gesture-Recognition"><strong>Click  here  to  Learn
More</strong></a>
                    </div>
                </div>
                <div class="project-list">
                                    <img  class="project_img"
src="C:/Users\KIIT\Desktop\AD_LAB\images\Snakegame.png">
                    <div>
                        <i class="fa-solid fa-gamepad"></i>
                        <h2>Python game</h2>
                            <p>Developed a Python-based Snake Game
using Pygame, integrating SQL for database management
                            to track scores and gameplay statistics,
featuring interactive graphics
                            and an engaging user interface.</p>
```

```html
                                                        <a
href="https://github.com/Soumit2003/Snake_game"><strong>Click
here to Learn More</strong></a>
                        </div>
                    </div>
                </div>
            </div>
            <button id="next">></button>
            <button id="prev"><</button>
        </div>
<!------------------------Contacts---------------------->
        <div id="contact">
            <div class="container">
                <div class="row">
                    <div class="contact-left">
                        <h1 class="sub-title">Contact Me</h1>
                            <p><i class="fa-solid fa-envelope"></i>
soumit707@gmail.com</p>
                                <p><i class="fa-solid fa-phone"></i>
9830270523</p>
                        <div class="social-icons">
                                                        <a
href="https://www.instagram.com/soumit_roy777?igsh=dWJiMzJ4a3c4N3
lm"><i class="fa-brands fa-square-instagram"></i></a>
                                                        <a
href="https://www.facebook.com/share/14VC6WyFLa/"><i
class="fa-brands fa-facebook"></i></a>
                                                        <a
href="https://x.com/Soumit372146?t=qxKyhsP1uZrW7xwPPzp6mg&s=08"><
i class="fa-brands fa-twitter"></i></a>
                                                        <a
href="https://www.linkedin.com/in/soumit-roy-23aa6b278?utm_source
=share&utm_campaign=share_via&utm_content=profile&utm_medium=andr
oid_app"><i class="fa-brands fa-linkedin"></i></a>
                                                        <a
href="https://github.com/Soumit2003"><i          class="fa-brands
fa-github"></i></a>
                        </div>
                         <a href="" dwonload class="btn btn2">Download
Resume</a>
                    </div>
                    <div class="contact-right">
                        <form name="submit-to-google-sheet">
```

```html
                        <div class="txt">
                            <p>
                                        <i class="fa-solid fa-comment"></i>
                                <strong>
                                        I would love to hear about your project and how I could help.<br>
                                        Please fill in the form and I'll get back to you as soon as possible.
                                </strong>
                                        <i class="fa-solid fa-comment"></i>
                            </p>
                        </div>
                                <input type="text" name="Name" placeholder="Your Name" required>
                                <input type="email" name ="email" placeholder="Your Email">
                                <textarea name="Message" rows="4" placeholder="Your Message"></textarea>
                                <button type="submit" class="btn btn2 btn-submit">Submit</button>
                        </form>
                        <span id="msg"></span>
                    </div>
                </div>
            </div>
        </div>
<!----------------------------About----------------------------------->
        <script>
                                        var     tablinks    = document.getElementsByClassName("tab-links");
                                        var     tabcontents    = document.getElementsByClassName("tab-contents");


                function opentab(tabname) {

                    for (var tablink of tablinks) {
                        tablink.classList.remove("active-link");
                    }
                    for (var tabcontent of tabcontents) {
                        tabcontent.classList.remove("active-tab");
```

```
                }
            event.currentTarget.classList.add("active-link")

document.getElementById(tabname).classList.add("active-tab")
        }
    </script>
<!-----------------------Projects----------------------------
---------->
<script>
const slides = document.querySelectorAll(".project-list");
let currentIndex = 0;


function showSlide(index) {
    slides.forEach((slide, i) => {
        if (i === index) {
            slide.style.display = "grid";
        } else {
            slide.style.display = "none";
        }
    });
}



showSlide(currentIndex);


document.getElementById("next").addEventListener("click", () => {
    currentIndex = (currentIndex + 1) % slides.length;
    showSlide(currentIndex);
});

document.getElementById("prev").addEventListener("click", () => {
        currentIndex = (currentIndex - 1 + slides.length) %
slides.length;
    showSlide(currentIndex);
});

</script>

<!-----------------------Contacts----------------------------
>
    <script>
```

```javascript
                                              const      scriptURL      =
'https://script.google.com/macros/s/AKfycbxik92osLkW_32wah4Wjn1O0
xtUYr1-aukHiShAZAjGeMndWX8THlo64phmMn8l86kZDQ/exec'
        const form = document.forms['submit-to-google-sheet']
        const msg = document.getElementById("msg")
        form.addEventListener('submit', e => {
          e.preventDefault()
                  fetch(scriptURL, { method: 'POST', body: new
FormData(form)})
            .then(response =>{
                msg.innerHTML="Your message has been sent 😊"
                setTimeout(function(){
                    msg.innerHTML=""
                },5000)
                form.reset()
            })
                        .catch(error  =>  console.error('Error!',
error.message))
        })
      </script>
</body>
</html>
```

CSS Code

```css
body {
    background-color: #080808;
    color: #fff;
    margin: 0;
    font-family: Arial, sans-serif;
}
.image {
    width: 30%;
    height: auto; /* Maintain aspect ratio */
    margin: 0; /* Remove unnecessary margins */
}
.container {
    padding: 10px 10%;
}
```

```css
nav {
    display: flex;
    align-items: center;
    justify-content: space-between;
    flex-wrap: wrap;
}
html{
    scroll-behavior: smooth;
}

.logo {
    width: 140px;
}

nav ul {
    display: flex;
    gap: 30px;
    list-style: none;
}

nav ul li a {
    text-decoration: none;
    color: #fff;
    font-size: 18px;
    transition: color 0.3s;
    position:relative;
}

nav ul li a::after {
    content:'';
    width:0%;
    height:3px;
    background:goldenrod;
    position:absolute;
    left:0;
    bottom: -6px;
    transition:0.5s;
}
nav ul li a:hover::after{
    width: 100%;

}
.header-text{
```

```css
    margin-top: -10%;
    font-size: 30px;
    display: flex;
    align-items: center;
    justify-content: space-between;
}
.header-text h1{
    font-size:60px;
    margin-top:20px;
}
.header-text h1 span{
    color:goldenrod;
}
/*---------------about-------------------------*/
#about{
    padding:80px 0;
    color: grey;
}
.row{
    display:flex;
    justify-content: space-between;
    flex-wrap:wrap;
}
.about-col-1{
    flex-basis:35%;
}
.about-col-1 img{
    width:100%;
    border-radius: 15px;
}
.about-col-2{
    flex-basis: 60%;
}
.sub-title{
    font-size: 60px;
    font-weight: 600;
    color: #fff;
}
.tab-titles{
    display:flex;
    margin: 20px 0 40px;
}
.tab-links{
```

```css
    margin-right: 50px;
    font-size: 18px;
    font-weight: 500;
    cursor: pointer;
    position: relative;
}
.tab-links::after{
    content: '';
    width: 0;
    height:3px;
    background: goldenrod;
    position: absolute;
    left:0;
    bottom:-8px;
    transition: 0.5s;
}
.tab-links.active-link::after{
    width: 50%;
}
.tab-contents ul li{
    list-style: none;
    margin: 10px 0;
}
.tab-contents ul li span{
    color: yellowgreen;
    font-size:14px;
}
.tab-contents{
    display:none;
}
.tab-contents.active-tab{
    display: block;
}
/***********************************Project***********************
********/
#projects{
    background:#262626;
    max-width: 1200px;
    min-height: 400px;
    padding: 20px;
    box-sizing: border-box;
    margin: 0 auto;
    border-radius:50px;
```

```css
    display: grid;
    position: relative;


}
.sub-title-project{
    font-size: 60px;
    color: white;
    margin-bottom: 60px;
    margin-left: 150px;
}
.project-list {
    display: grid;
    grid-template-columns: 1fr 1fr;
    max-width: 80%;
    justify-content: space-between;
    overflow: visible;
    gap: 20px;
}
.project-list div{
    padding-bottom: 100%;
    max-width: 800px;
    max-height:60%;
    background-color: #464242;
    position:relative;
    margin-left: -200px;
    justify-content: space-between;
    padding: 20px;
    font-size: calc(16px + 0.5vw);
    border-radius:50px;
    box-shadow: 0px 10px 10px yellowgreen;
    margin: 30px 0;
    overflow: hidden;
    top: -20px;
    left: -40px;
}

.project-list div p {
    max-height: 30%;
    margin: 10px 0;
    padding-right: 10px;
    overflow-y: auto;
    scrollbar-width: thin;
    scrollbar-color: yellowgreen #444;
```

```css
        flex-direction: column;
}
.project-list div a{
    color:white;
    text-align: center !important;
    display: block;
}
.project-list i{
    font-size:50px;
}


.project_img{
    max-width: 100%;
    max-height:60%;
    position:relative;
    left: 50px;
    top:30px;
    border-radius: 20px;
}
.slider{
    position:absolute;
    width: 100%;
    height: 370px;
    overflow:hidden;
}
#next, #prev{
    position: absolute;
    color:yellowgreen;
    background-color: #262626;
    font-size:100px;
    font-family: monospace;
    top: 50%;
    transform: translateY(-50%);
    left: 3%;
    border-radius: 30px;

}
#next{
    left:unset;
    right:3%;
}
@media (max-width: 768px) {
```

```css
    .project-list {
        grid-template-columns: 0.5fr,1fr;
        min-height: 200px;
    }


    .project-list img,
    .project-list div {
        margin: 0 auto;
        max-width: 60%;
        left:-5%;
        top: 125px;
    }
    .project-list div {
        top:3px;
        left:-25%;
        max-height:300px;
        margin-bottom: 30px;


        font-size: 12px;
    }


    .slider {
        flex-direction: column;
        gap: 5px;
    }


    #next, #prev{
        margin: 10px 0;
    }
}

/*-----------------contact-----------------*/
.contact-left{
    flex-basis: 30%;
}
.contact-right{
    flex-basis: 60%;
}
.contact-left p{
    margin-top:30px;
}
.contact-left p i{
    color:yellowgreen;
```

```css
        margin-right: 15px;
        font-size: 30px;


}
.social-icons{
    margin-top:30px;
}
.social-icons a{
    text-decoration:15px;
    font-size:30px;
    margin-right: 15px;
    color: #ababab;
    display: inline-block;
    transition: transform 0.5s;
}

.social-icons a:hover{
    color: yellowgreen;
    transform: translateY(-10px);
}
.btn.btn2{
    display: inline-block;
    background:yellowgreen;
    margin-top:35px;
    margin-bottom:35px;
    font-size: 20px;
    padding: 10px 15px;
    border-radius: 5px;
    text-decoration: none;
    color: white;

}
.btn.btn2:hover{
    background:limegreen;
}
.contact-right form{
    width:100%;
}
form input,form textarea{
    width:100%;
    border:0;
    outline: none;
    background:#262626;
```
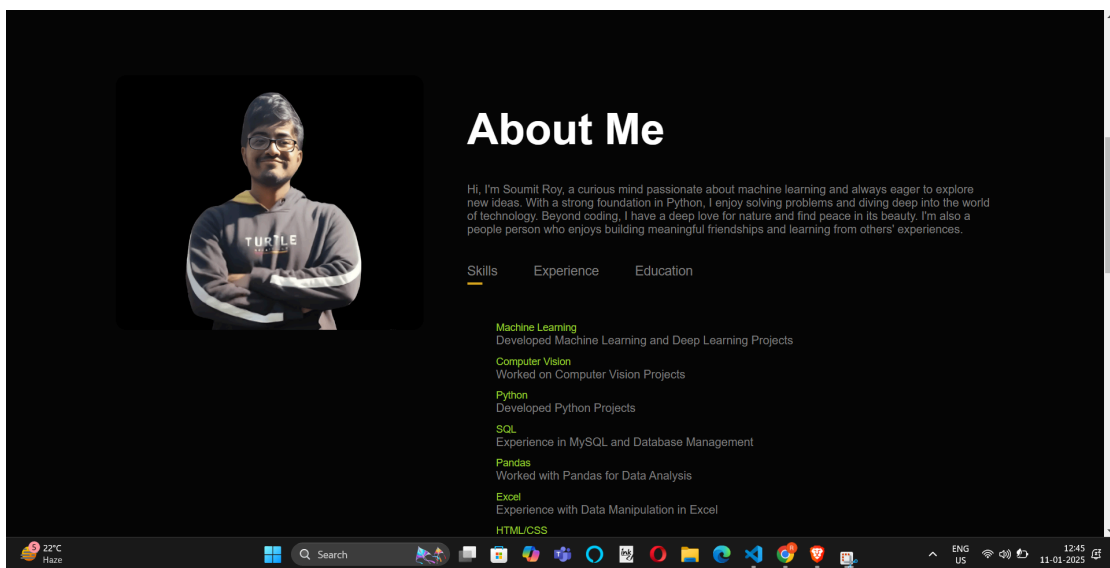
```css
        padding:15px;
        margin:15px 0;
        color: #fff;
        font-size:18px;
        border-radius: 6px;
}
.btn.btn2.btn-submit{
        margin-top:28px;
}
.contact-right p {
        text-align: center;
        font-size: 16px;
        line-height: 1.5;
}
.txt{
        margin-top: 165px;
}
.contact-right p i{
        color:yellowgreen;
}
#msg{
        color: #616161;
        margin-top:-35px;
        display:block;
}
```
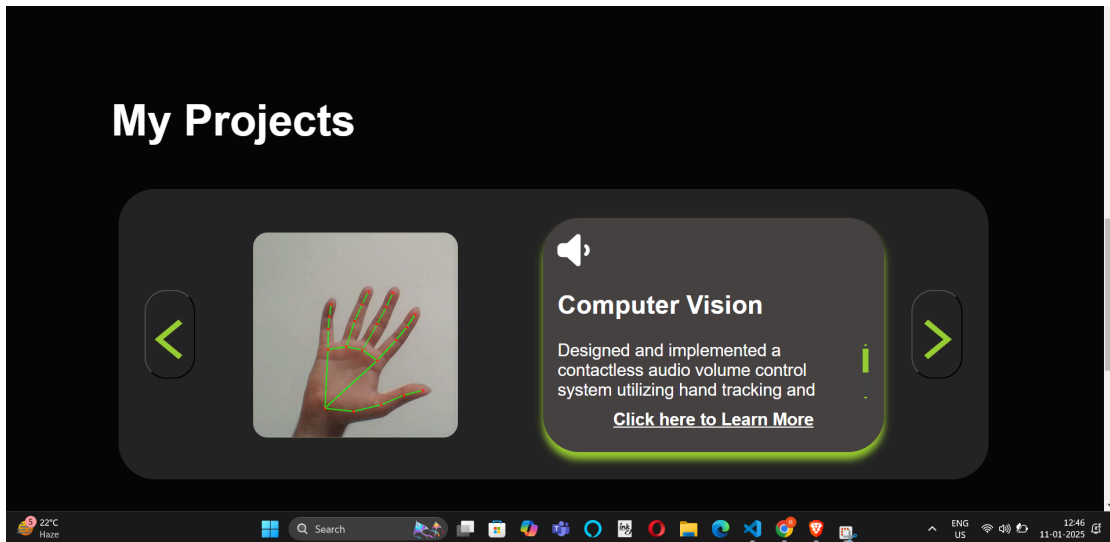
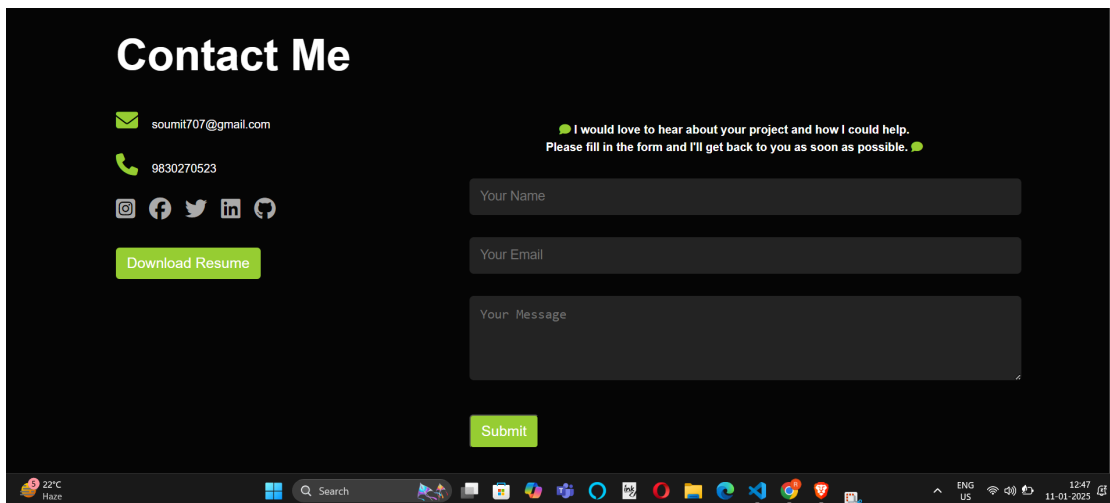**4.   Results/Output:- Entire Screen Shot including Date & Time**
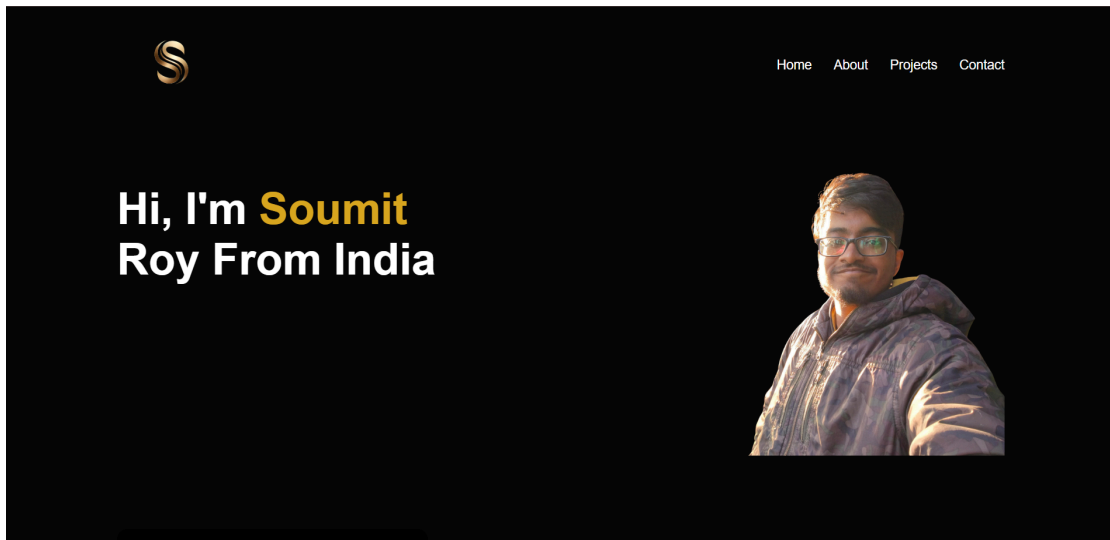
Home Page

About Page

My Project

Contacts

5.   Remarks:-

Soumit Roy   Signature of the Lab Coordinator

_____   _____

                                                                        (Name of the Coordinator)