

LABORATORY REPORT  
**Application Development Lab**  
**(CS33002)**

**B.Tech Program in ECSc**

Submitted By

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**Kalinga Institute of Industrial Technology**  
**(Deemed to be University)**  
**Bhubaneswar, India**

Spring 2024-2025

## Table of Content

Exp No.	Title	Date of Experiment	Date of Submission	Remarks
1.	To design and develop a professional resume using HTML and CSS. Detailed Procedure:	07-01-2025	14-01-2025	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.	Open Ended 1			
10.	Open Ended 2			

<b>Experiment Number</b>	1
<b>Experiment Title</b>	Building a Resume using HTML/CSS
<b>Date of Experiment</b>	07-01-2025
<b>Date of Submission</b>	14-01-2025

1. **Objective:-** To design and develop a professional resume using HTML and CSS. Detailed Procedure:

2. **Procedure:-**

1. Open a new project folder and create an `index.html` file for the structure of your resume.

2. Write HTML code for sections: Header (Name, Photo, Contact), Skills, Projects, Work-experience, and Education.

3. Add hyperlinks to Linked In, GitHub, and other online portfolios.

4. Use CSS to apply design elements for proper alignment, spacing, and colors.

5. Make the layout responsive using Flexbox or Grid.

6. Integrate images and video links as required.

7. Test the design across devices.

3. **Code:-**

a) **Index.html** -

```
<!DOCTYPE html>
```

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

```
<head>
```

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

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

```
<title>Somyak Senapaty - Resume</title>
```

```
<link          href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.0.0-beta3/css/all.min.css" rel="stylesheet">
```

```
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstr
ap.min.css" rel="stylesheet"
```

```
integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh
0JMhY6hW+ALEwIH" crossorigin="anonymous">
```

```
<link rel="stylesheet" href="style.css">
```

```
</head>
```

```
<body>
```

```
<div class="a4-container">
```

```
<!-- Header Section -->
```

```
<header class="header">
```

```
<h1>Somyak Senapaty</h1>
```

```
<div class="contact-info">
```

```
<p class="email">
```

```
<i class="fas fa-envelope"></i>
```

```
<a
```

```
href="mailto:somyaksenapaty2003@gmail.com">somyaksenapaty
2003@gmail.com</a>
```

```
</p>
```

```
<p class="phone">
```

```
<i class="fas fa-phone-alt"></i>
```

```
+91 9777447803
```

```
</p>
<p class="linkedin">
  <i class="fab fa-linkedin"></i>
  <a
href="https://www.linkedin.com/in/somyaksenapaty2003/"
target="_blank">LinkedIn Profile</a>
</p>
<p class="GitHub">
  <i class="fab fa-GitHub"></i>
  <a      href="https://github.com/Somyak2003"
target="_blank">GitHub</a>
</p>
</div>
<div class="image-container">
  
</div>
</header>

<!-- Education Section -->
<section class="education">
  <h2 class="heading">EDUCATION</h2>
  <hr>
  <div class="education-entry">
    <div class="institution">
      <span class="name">Kalinga Institute of Industrial
Technology</span>
      <span class="location">Bhubaneswar, India</span>
    </div>
    <div class="details">
```

B.Tech in Electronics and  
Computer Science Engineering; CGPA: 7.32

2022 - 2026

Doon International  
School

Bhubaneswar, Odisha

CBSE 12th; Percentage:  
73.6%

2022

D.A.V. Public School  
Pokhariput

Bhubaneswar, Odisha

CBSE 10th; Percentage:  
89.6%

2020

</div>

</div>

</section>

<!-- Projects Section -->

<section class="projects">

<h2 class="heading">PROJECTS</h2>

<hr>

<ul>

<li>

<h3 class="project-heading">

Automatic Car Parking System

</h3>

<p class="description">

This project implements a smart parking solution using an Arduino Uno, proximity sensors, and an RFID system.

Proximity sensors detect available parking spaces, while an RFID card reader controls vehicle access.

When a valid RFID card is scanned, the barrier gate opens, and the system updates slot availability, displaying

the status on an LCD screen. The design minimizes human intervention, reduces parking time, and enhances security

by ensuring authorized access. This efficient, cost-effective solution demonstrates scalable technology for modernizing

parking management in smart cities.

</p>

</li>

<li>

<h3 class="project-heading">

Sun Tracking Solar Panel (Ongoing Project)

</h3>

<p class="description">

Our project introduces a smart solar panel system that tracks the sun's movement using an advanced driver module, maximizing sunlight capture for increased energy efficiency. Designed to empower rural communities, this innovative solution provides a cost-effective, sustainable alternative to traditional electricity. By optimizing renewable energy

generation, it helps bridge the energy gap, reduce reliance on non-renewable resources, and lower energy costs. Scalable

and reliable, the Sun Tracking Solar Panel brings clean power to underserved regions, promoting a greener, brighter future.

Harness the power of the sun—anytime, anywhere—with our transformative solar tracking technology.

</p>

</li>

</ul>

</section>

<!-- Experience Section -->

<section class="experience">

<h2 class="heading">EXPERIENCE</h2>

<hr>

<div class="experience-entry">



```
<div class="company">
  <span class="name">
    DSA With Java And Web Development Course
(Ongoing)
    <a
href="https://drive.google.com/drive/folders/1gTnozTvpDt31daE3
vJ4dTOOXLkURpfvG?usp=drive_link"
    target="_blank">
      <i class="fas fa-external-link-alt"></i>
    </a>
  </span>
  <span class="location">Virtual</span>
</div>
<div class="about">
  <span class="company-name">Apna College</span>
  <span class="year">May 2024 - Present</span>
</div>
<div class="details">
  <ul>
    <li>Gained hands-on experience in HTML, CSS,
and JavaScript for front-end web development
      and responsive design using Bootstrap.</li>
    <li>Learned backend technologies, including
Node.js, Express.js, and database management with
MongoDB.</li>
    <li>Built interactive and scalable web applications
through real-world projects, strengthening full-stack development
skills.</li>
  </ul>
```

```
</div>
</div>
<div class="experience-entry">
  <div class="company">
    <span class="name">
      Teachnook - Collaboration with Cognizance'24 IIT
Roorkee
      <a
href="https://drive.google.com/drive/folders/1gTnozTvpDt31daE3
vJ4dTOOXLkURpfvG?usp=drive_link"
target="_blank">
        <i class="fas fa-external-link-alt"></i>
      </a>
    </span>
    <span class="location">Virtual</span>
  </div>
  <div class="about">
    <span class="company-name">Teachnook</span>
    <span class="year">June 2024 - July 2024</span>
  </div>
  <div class="details">
    <ul>
      <li>The course offered in collaboration with
Cognizance'24 IIT Roorkee covered key concepts
of web development, including HTML, CSS,
JavaScript, and modern frameworks. It provided
hands-on experience in building responsive and
dynamic websites.</li>
```

`<li>`The course emphasized practical learning with  
real-world projects, enhancing skills  
in frontend and backend development.  
Completion of the course awarded a certificate,  
recognized for its association with a prestigious  
IIT event, adding value to professional credentials.`</li>`

`</ul>`

`</div>`

`</div>`

`</section>`

`<!-- Core Subject Proficiency Section -->`

`<section class="core">`

`<h2 class="heading">CORE SUBJECT`  
PROFICIENCY`</h2>`

`<hr>`

`<ul>`

`<li>`Data Structure And Algorithms`</li>`

`<li>`Database Management System`</li>`

`<li>`Microprocessor & Embedded Systems`</li>`

`<li>`Electronic Circuits`</li>`

`</ul>`

`</section>`

`<!-- Skills Section -->`

`<section class="skills">`

`<h2 class="heading">SKILLS</h2>`

`<hr>`

```
<ul>
  <li>Programming Languages: C, Java, Python, HTML,
CSS, SQL</li>
  <li>Developer Tools: VS Code, Google Collab,
MySQL</li>
  <li>Frameworks: Flask</li>
  <li>Libraries: Pandas, NumPy, Matplotlib</li>
</ul>
</section>
```

```
<!-- Achievements Section -->
<section class="achievements">
  <h2 class="heading">ACHIEVEMENTS</h2>
  <hr>
  <ul>
    <li>Responsive Web Design - Certification from
FreeCodeCamp <a
href="https://drive.google.com/drive/folders/1gTnozTvpDt31daE3
vJ4dTOOXLkURpfvG?usp=drive_link"
target="_blank">
      <i class="fas fa-external-link-alt"></i>
    </a></li>
    <li>Flask Basics - Certification from Cursa App <a
href="https://drive.google.com/drive/folders/1gTnozTvpDt31daE3
vJ4dTOOXLkURpfvG?usp=drive_link"
target="_blank">
      <i class="fas fa-external-link-alt"></i>
    </a></li>
```

```
        <li>MySQL Fundamentals - Certification from Scaler <a
href="https://drive.google.com/drive/folders/1gTnozTvpDt31daE3
vJ4dTOOXLkURpfvG?usp=drive_link"
```

```
        target="_blank">
```

```
        <i class="fas fa-external-link-alt"></i>
```

```
    </a></li>
```

```
</ul>
```

```
</section>
```

```
</div>
```

```
<script
```

```
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap
.bundle.min.js"
```

```
    integrity="sha384-
```

```
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9Gk
cIdslK1eN7N6jleHz"
```

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

```
</body>
```

```
</html>
```

b) **Style.css** -

```
html {
```

```
    height: 80%;
```

```
    margin: 0;
```

```
}
```

```
body {
```

```
    display: flex;
```

```
    justify-content: center;
```

```
    min-height: 100vh;
}
```

```
.a4-container {
    width: 210mm;
    min-height: 297mm;
    margin: 20px auto;
    padding: 15mm;
    background-color: white;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    box-sizing: border-box;
    font-size: 10pt;
}
```

```
.header {
    margin-bottom: 15px;
    display: flex;
    justify-content: space-between;
    gap: 15px;
}
```

```
.header-content {
    flex: 1;
}
```

```
.header h1 {
    margin: 0 0 8px 0;
    font-size: 18pt;
    font-weight: bold;
```

```
}
```

```
.contact-info {  
  font-size: 9pt;  
  margin-left: -557px;  
  margin-top: 40px;  
  gap: 4px;  
}
```

```
.contact-info p {  
  margin: 0;  
  display: flex;  
  align-items: center;  
  gap: 4px;  
}
```

```
.image-container {  
  width: 100px;  
  height: 100px;  
  flex-shrink: 0;  
}
```

```
.image-container img {  
  width: 100%;  
  height: 100%;  
  object-fit: cover;  
  object-position: center;  
}
```

```
a {  
    color: inherit;  
    text-decoration: none;  
}
```

```
a:hover {  
    text-decoration: underline;  
}
```

```
.heading {  
    font-size: 12pt;  
    margin: 8px 0 4px;  
    font-weight: bold;  
}
```

```
hr {  
    border: 0;  
    border-top: 1px solid black;  
    margin: 4px 0;  
}
```

```
ul {  
    padding-left: 12px;  
    margin: 5px 0;  
}
```

```
ul li {  
    font-size: 9pt;  
    margin-bottom: 6px;
```



```
    line-height: 1.3;
}
```

```
.education,
.experience,
.projects,
.skills,
.core,
.achievements {
    margin-top: 12px;
}
```

```
.education-entry,
.experience-entry {
    margin-bottom: 10px;
}
```

```
.institution,
.company {
    display: flex;
    justify-content: space-between;
    font-size: 10pt;
    font-weight: bold;
    margin-bottom: 5px;
}
```

```
.institution .location,
.company .location {
    font-style: italic;
}
```

```
    font-weight: lighter;
    color: #555;
}
```

```
.details,
.about {
    display: flex;
    justify-content: space-between;
    font-size: 9pt;
    color: #333;
}
```

```
.details .year,
.about .year {
    font-style: italic;
}
```

```
.project-heading {
    font-size: 10pt;
    font-weight: bold;
    margin-bottom: 3px;
}
```

```
.description {
    font-size: 9pt;
    line-height: 1.3;
}
```

```
.projects ul,
```

```
.skills ul,  
.core ul,  
.achievements ul {  
    list-style-type: none;  
    padding-left: 0;  
}
```

```
.skills li,  
.core li,  
.achievements li {  
    margin-bottom: 5px;  
}
```

```
.experience-entry .details ul {  
    margin-top: 3px;  
    margin-left: 19px;  
}
```

```
@media print {  
    body {  
        background: none;  
    }  
}
```

```
.a4-container {  
    margin: 0;  
    padding: 15mm;  
    box-shadow: none;  
    width: 210mm;  
    height: 100px;  
}
```

```

    }
}

@media screen and (max-width: 210mm) {
    .a4-container {
        margin: 0;
        width: 100%;
        min-height: auto;
    }
}

.fa-phone-alt {
    transform: rotate(90deg);
}

```

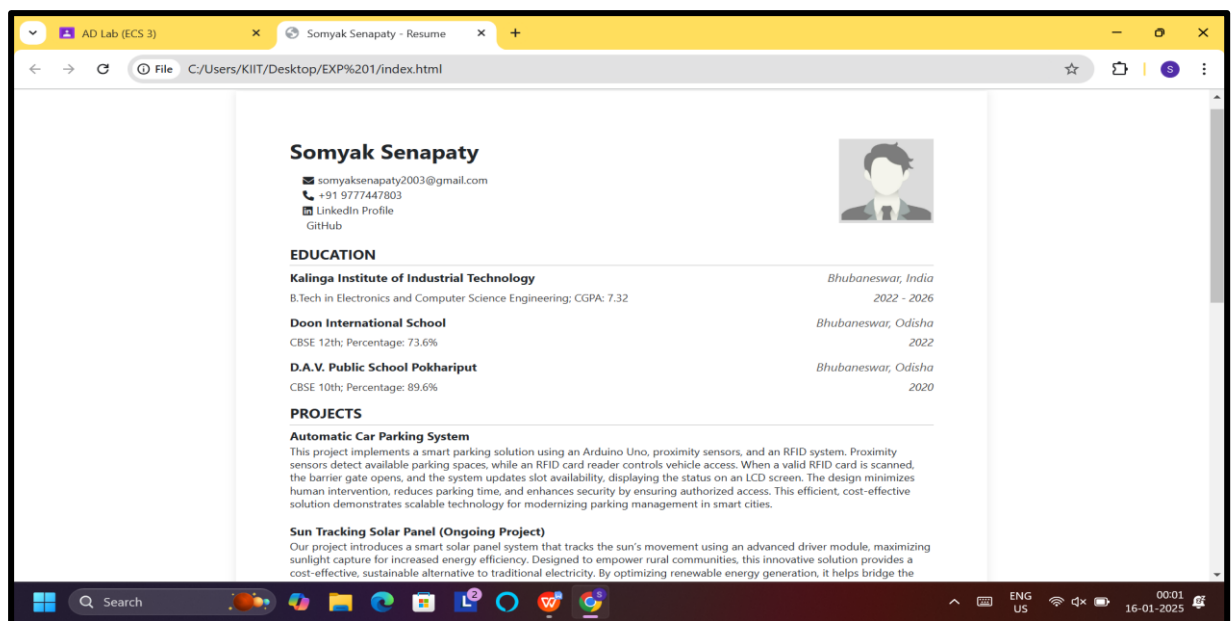
#### 4. GITHUB Repository Link:-

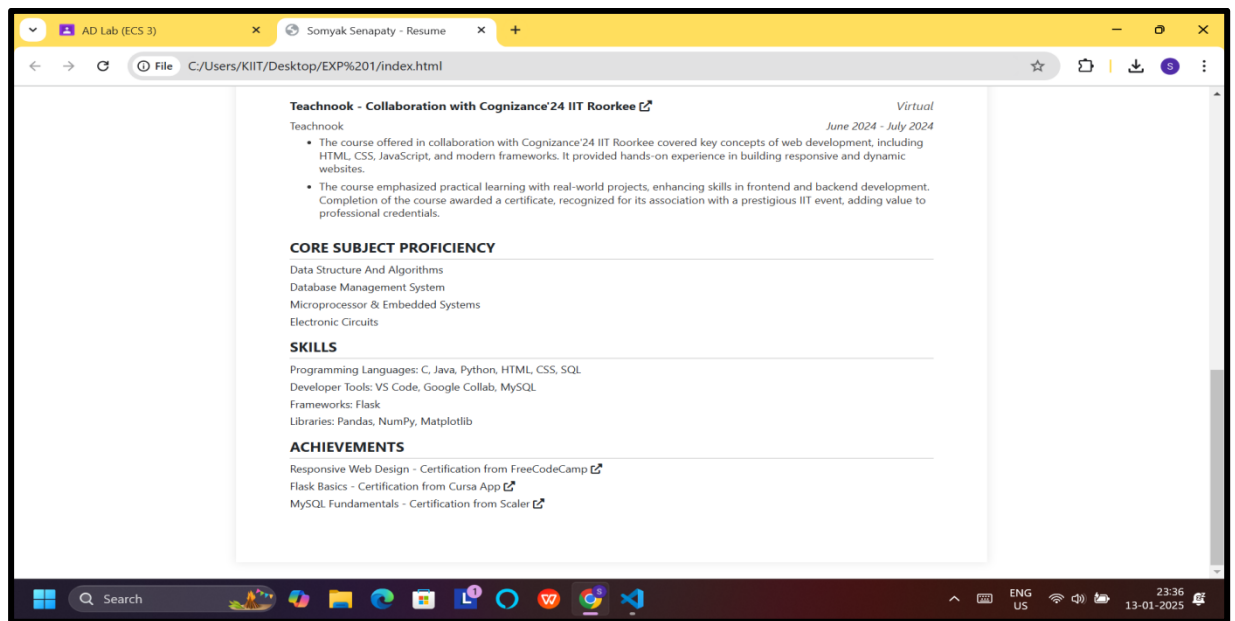
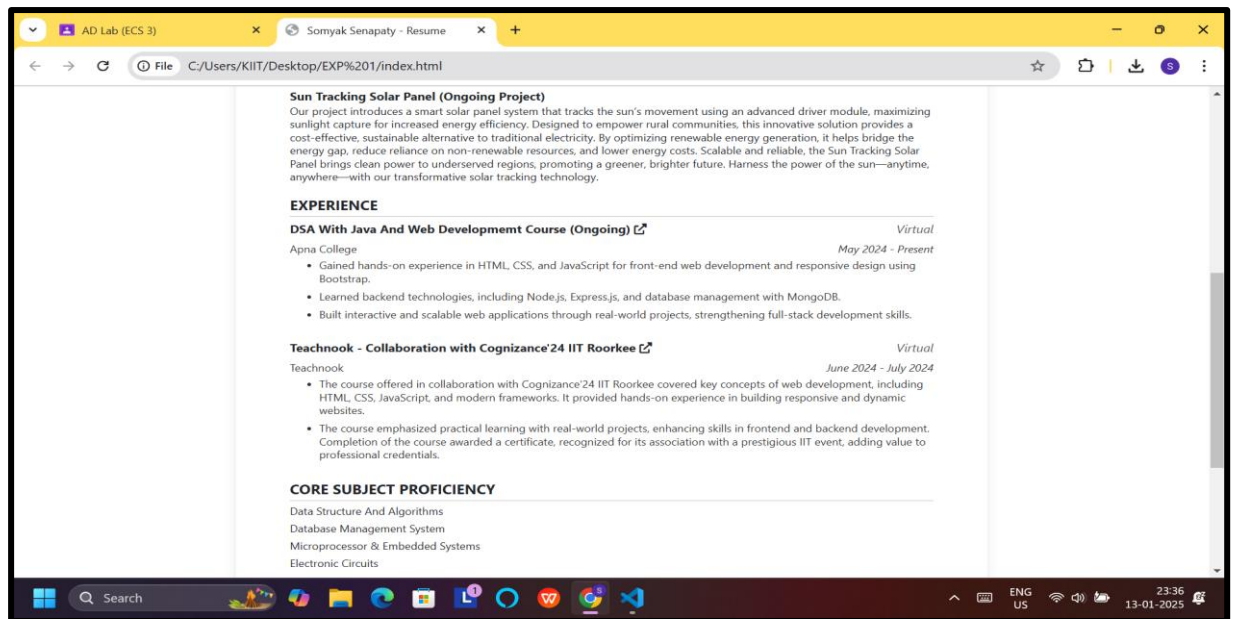
<https://github.com/Somyak2003?tab=repositories>

#### 5. LinkedIn Link:-

<https://www.linkedin.com/in/somyaksenapaty2003/>

#### 6. Results/Output:- (Entire Screen Shot including Date & Time)





## 7. Remarks:-

Signature of the Student

(Name of the Student)

Signature of the Lab Coordinator

(Name of the Coordinator)