LABORATORY REPORT

Application Development Lab
(CS33002)

B.Tech Program in ECSc

Submitted By

Name:-Drishtant Lekharu

Roll No: 2230024

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

Spring 2024-2025

Table of Content

Experiment Number	1
Experiment Title	Build a Resume using HTML/CSS
Date of Experiment	07/01/2025
Date of Submission	09/01/2025

Github Repo link :
https://github.com/drishlekh/AD-LAB/tree/main/LAB1

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

2. **Procedure:-**

1.Creating the HTML File: We first created an HTML file named index.html, where we defined the basic structure of the resume. This included setting up the document type, language, and meta tags, followed by creating sections for the header, education, experience, projects, technical skills, and coursework.

2.Structuring the Content: Within the HTML file, we organized the content into appropriate sections using elements. We added headings (<h1> and <h2>), paragraphs, and lists to present personal information, educational background, work experience, project descriptions, and technical skills clearly and logically.

3.Creating the CSS File: Next, we created a separate CSS file named styles.css to style the resume. In this file, we defined styles for the body, header, sections, and text elements, using properties such as background-color, font-size, color, and padding to enhance the visual appeal and readability of the resume.

4.Implementing Responsive Design: To ensure the resume looked good on various devices, CSS media queries were used. This allowed us to adjust the layout and styling for different screen sizes, ensuring that the resume maintained a clean and organized appearance on both desktop and mobile devices.

5.Reviewing and Finalizing: Finally, reviewed the HTML and CSS code for any errors or inconsistencies. Tested the resume in different

browsers to ensure compatibility and made any necessary adjustments before saving the final version, ready for submission or sharing.

3. Code:-

index.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width,
initial-scale=1.0">
   <title>Drishtant Lekharu - Resume</title>
   <link rel="stylesheet" href="style.css">
</head>
<body>
   <div class="header">
      <img src="PP.jpg" alt="Profile Photo" class="profile-photo">
      <h1 class="name">Drishtant Lekharu</h1>
      <div class="contact-info">
         <a href="tel:7002346153">7002346153</a>
         <a
href="mailto:drish.lekh26@gmail.com">drish.lekh26@gmail.com</a>
         <a
href="https://www.linkedin.com/in/drishtant-lekharu-2ab327262/">Linke
dIn</a>
         <a href="https://github.com/drishlekh">GitHub</a>
      </div>
   </div>

   <div class="section">
      <h2 class="section-title"><i>Education</i></h2>
      <div class="experience-item">
         <div class="company-name">KIIT University</div>
         <div class="position">B.Tech in Electronics and Computer
Science</div>
         <div class="date">2022 - 2026</div>
         <div class="location">Bhubaneswar, Odisha</div>
      </div>
   </div>
```

```
<div class="section">
  <h2 class="section-title"><i>Experience</i></h2>
  <div class="experience-item">
    <div class="company-name">Samsung PRISM(Samsung R&D Institute India, Bangalore)</div>
    <div class="position">Software Development Intern (Research Intern)</div>
    <div class="date">March 2024 – Present</div>
    <div class="location">Remote</div>
    <ul>
      <li>Developed and deployed a secure user authentication API using Python, Flask, and SQLite on AWS EC2, reducing potential vulnerabilities by 30% during internal testing.</li>
      <li>Developed an Android application for multicast audio streaming over WiFi using Kotlin and the Android SDK.</li>
      <li>Engineered a client-server architecture with TCP/IP and Network Service Discovery (NSD), reducing setup time by 15% in a test environment.</li>
      <li>Implemented audio streaming with MulticastSocket and DatagramPacket.</li>
      <li>Implemented real-time audio streaming to multicast groups, achieving an average data rate of 120-145 Kbps and less than 10% packet loss during testing.</li>
    </ul>
  </div>
</div>

<div class="section">
  <h2 class="section-title"><i>Projects</i></h2>
  <div class="project-item">
    <div class="project-name">Questions Practice App</div>
    <div class="technologies"><i>Kotlin, Firebase, Android SDK<i></div>
    <ul>
      <li>Developed an Android application in Kotlin using Android SDK and Android Studio to provide users with a platform for practicing questions of subjects like Aptitude, Reasoning etc.</li>
      <li>The app fetches data from a Firebase real-time database, presents multiple-choice questions, and validates user answers in real-time, providing instant feedback.</li>
      <li>Implemented secure user authentication using Firebase, enabling sign-up and sign-in functionality.</li>
```

```
            <li>Future enhancement: Integrating an AI-powered Large Language Model (LLM) to dynamically generate aptitude questions, enhancing user engagement and expanding the app’s content.</li>
          </ul>
        </div>
        <div class="project-item">
          <div class="project-name">Stock Lookup App</div>
          <div class="technologies"><i>Kotlin, Android SDK, Retrofit, MVVM</i></div>
          <ul>
            <li>Developed a mobile application that allows users to search for stock information using stock symbols, displaying real-time data such as current price, percentage change, and company name.</li>
            <li>Implemented API integration with Finnhub to fetch and display real-time stock information, including current prices and changes.</li>
            <li>Utilized ViewModel architecture components to manage UI-related data lifecycle-consciously, ensuring efficient data handling and error management.</li>
          </ul>
        </div>
    </div>

    <div class="section">
        <h2 class="section-title">Technical Skills</h2>
        <ul>
            <li><strong>Languages:</strong> C++, C, Kotlin, Python, Java</li>
            <li><strong>Frameworks:</strong> Android SDK, Android Jetpack, Kotlin Coroutines, Retrofit, Dagger/Hilt, MVVM Architecture</li>
            <li><strong>Databases:</strong> MySQL, Firebase</li>
            <li><strong>Developer Tools:</strong> Git, Github, VS Code</li>
            <li><strong>Libraries:</strong> Pandas, NumPy, Matplotlib</li>
        </ul>
    </div>

    <div class="section">
        <h2 class="section-title">Coursework Subjects</h2>
        <ul>
            <li>Object Oriented Programming</li>
            <li>Operating Systems</li>
```

```
            <li>Database Management Systems</li>
            <li>Data Structures & Algorithms</li>
        </ul>
    </div>
</body>
</html>
```

style.css

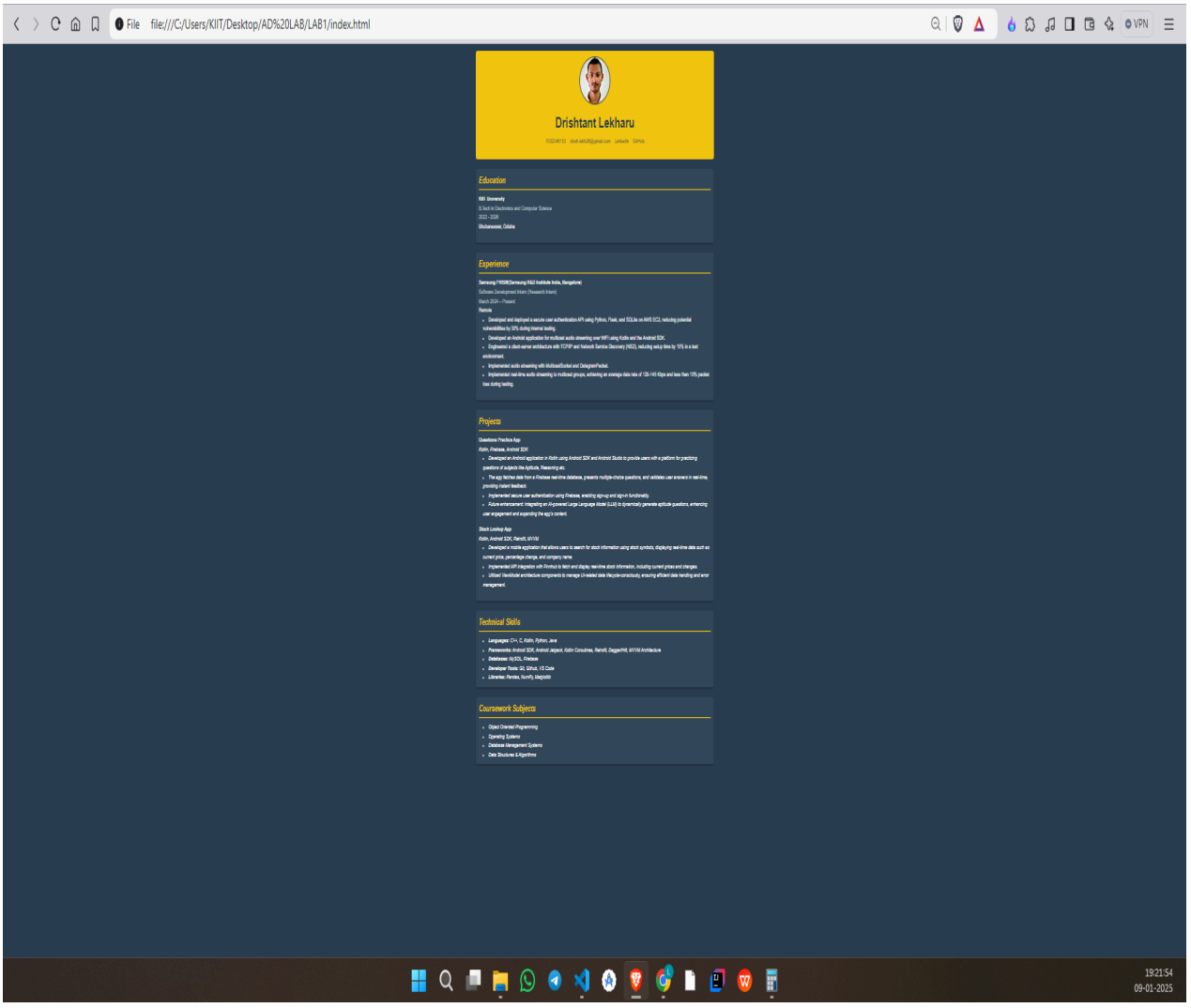
```
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: 'Arial', sans-serif;
}

body {
    line-height: 1.6;
    color: #f4f4f4; /* Light text for dark mode */
    max-width: 1200px;
    margin: 0 auto;
    padding: 20px;
    background-color: #2c3e50; /* Dark background */
}

.header {
    text-align: center;
    margin-bottom: 30px;
    display: flex;
    flex-direction: column;
    align-items: center;
    background-color: #f1c40f; /* Yellow background */
    color: #2c3e50; /* Dark text for contrast */
    padding: 20px;
    border-radius: 8px;
}

.profile-photo {
    width: 150px;
    height: 150px;
```

```
    border-radius: 50%;
    margin-bottom: 20px;
    object-fit: cover;
    border: 3px solid #2c3e50; /* Dark border */
}

.name {
    font-size: 2.5em;
    margin-bottom: 10px;
}

.contact-info {
    display: flex;
    justify-content: center;
    gap: 20px;
    margin-bottom: 20px;
}

.contact-info a {
    color: #2c3e50; /* Dark text for links */
    text-decoration: none;
    transition: color 0.3s;
}

.contact-info a:hover {
    color: #ffcc00; /* Highlight color on hover */
}

.section {
    margin-bottom: 30px;
    background-color: #34495e; /* Darker section background */
    padding: 15px;
    border-radius: 8px;
    box-shadow: 0 2px 5px rgba(0, 0, 0, 0.3);
}

.section-title {
    font-size: 1.5em;
    color: #f1c40f; /* Yellow title */
    border-bottom: 2px solid #f1c40f;
    margin-bottom: 15px;
    padding-bottom: 5px;
}
```

```
.experience-item, .project-item {
    margin-bottom: 20px;
}

.company-name, .project-name {
    font-weight: bold;
    color: #ecf0f1; /* Light text for company/project names */
}

.position, .date {
    color: #bdc3c7; /* Lighter text for position/date */
    /* font-style: italic; */
}

ul {
    list-style-position: inside;
    margin-left: 20px;
}

@media (max-width: 768px) {
    .contact-info {
        flex-direction: column;
        gap: 10px;
    }

    body {
        padding: 10px;
    }
}
```

4. Results/Output:-

(1)



(2)

Drishtant Lekharu

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Education

KIIT University
B.Tech in Electronics and Computer Science
2022 - 2026
Bhubaneswar, Odisha

Experience

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- Implemented audio streaming with MulticastSocket and DatagramPacket.
- Implemented real-time audio streaming to multicast groups, achieving an average data rate of 120–145 Kbps and less than 10% packet loss during testing.

Projects

Quantitative Practice App
Kotlin, Firebase, Android SDK

- *Developed an Android application in Kotlin using Android SDK and Android Studio to provide users with a platform for practicing questions of subjects like Aptitude, Reasoning etc.*
- *The app fetches data from a Firebase real-time database, presents multiple-choice questions, and validates user answers in real-time, providing instant feedback.*
- *Implemented secure user authentication using Firebase, enabling sign-up and sign-in functionality.*
- *Future enhancement: Integrating an AI-powered Large Language Model (LLM) to dynamically generate aptitude questions, enhancing user engagement and expanding the app's content.*

Stock Lookup App
Kotlin, Android SDK, Retrofit, MVVM

- *Developed a mobile application that allows users to search for stock information using stock symbols, displaying real-time data such as current price, percentage change, and company name.*
- *Implemented API integration with Finnhub to fetch and display real-time stock information, including current prices and changes.*
- *Utilized ViewModel architecture components to manage UI-related data lifecycle-consciously, ensuring efficient data handling and error management.*

Technical Skills

- ***Languages:** C++, C, Kotlin, Python, Java*
- ***Frameworks:** Android SDK, Android Jetpack, Kotlin Coroutines, Retrofit, Dagger/Hilt, MVVM Architecture*
- ***Databases:** MySQL, Firebase*
- ***Developer Tools:** Git, Github, VS Code*
- ***Libraries:** Pandas, NumPy, Matplotlib*

Coursework Subjects

- *Object Oriented Programming*
- *Operating Systems*
- *Database Management Systems*
- *Data Structures & Algorithms*

5. Remarks:-

Signature of the Student
Drishtant Lekharu
(Name of the Student)

Signature of the Lab Coordinator
_____
(Name of the Coordinator)