

Assignment 1 - Tamara Cariappa, 1CR23CS197

index.html

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

<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width,initial-scale=1" />
  <title>Tamara Cariappa - Bio</title>

  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link
href="https://fonts.googleapis.com/css2?family=Limelight&family=Poppins:wght@300;400;500;600;700&displa
y=swap"
rel="stylesheet">

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

  <script src="jquery-3.7.1.min.js"></script>
  <script defer src="main.js"></script>
</head>

<body>
  <header class="site-header">
    <div class="container">
      <a class="logo" href="index.html">Tamara Cariappa</a>
      <nav class="main-nav">
        <a href="index.html">Bio</a>
        <a href="resume.html">Resume</a>
        <a href="education.html">Education</a>
        <a href="contact.html">Contact</a>
      </nav>
    </div>
  </header>

  <div class="container content">
    <aside class="profile-card">
      
      <h1>Tamara Cariappa</h1>
      <p class="muted">Computer Science Student · CMR Institute of Technology, Bangalore</p>

      <div class="profile-highlights">
        <h3>Focus Areas</h3>
        <ul>
          <li>Backend development & algorithms</li>
          <li>AI / Machine Learning</li>
        </ul>
      </div>
    </aside>
  </div>
</body>
</html>
```

```
<li>Data structures & problem solving</li>
<li>Competitive programming</li>
</ul>
</div>

<div class="profile-links">
  <a class="btn primary" href="resume.html">View Resume</a>
  <a class="btn ghost" href="contact.html">Let's Connect</a>
</div>
</aside>

<section class="bio">
  <h2>About me</h2>
  <p>
    Hi, I am Tamara Cariappa studying Computer Science and Engineering at CMR Institute of Technology, Bangalore. I love writing code and pondering over problems in terms of logic, structure, and efficiency. I am most interested in backend development, algorithms, and the recent world of AI and machine learning.
  </p>
  <p>
    I develop things that make concepts easier to understand or utilize. Currently, I have developed a Knapsack Visualizer website which demonstrates the brute-force knapsack algorithm at work. I have also written code for a Professor Availability Checker in Python, which aims to find the best time to meet with faculty using students' schedules.
  </p>
  <p>
    People often describe me as curious, logical, and a bit of a perfectionist. I like breaking problems down into smaller pieces, experimenting, and polishing details until they feel just right. Long term, I see myself working as an AI researcher or data scientist, using data and models to answer interesting questions.
  </p>
  <p>
    When I'm not coding, I usually read fiction books, swim to clear my mind, or knit while catching a movie. I speak Kannada and English; I am somewhat shy initially, but I warm up in no time--I can yap a lot when comfortable!
  </p>
</section>
</div>

<footer class="site-footer">
  <div class="container">© Tamara Cariappa — <span id="year"></span></div>
</footer>
</body>
```

</html>

resume.html

<!doctype html>

<html lang="en">

<head>

<meta charset="utf-8" />

<meta name="viewport" content="width=device-width,initial-scale=1" />

<title>Tamara Cariappa - Bio</title>

<link rel="preconnect" href="https://fonts.googleapis.com">

<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>

<link

href="https://fonts.googleapis.com/css2?family=Limelight&family=Poppins:wght@300;400;500;600;700&displa
y=swap"

rel="stylesheet">

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

<script src="jquery-3.7.1.min.js"></script>

<script defer src="main.js"></script>

</head>

<body>

<header class="site-header">

<div class="container">

Tamara Cariappa

<nav class="main-nav">

Bio

Resume

Education

Contact

</nav>

</div>

</header>

<div class="container content resume-page">

<section class="resume-section" id="summary">

<h1>Resume</h1>

<p class="muted">Computer Science and Engineering student with a strong interest in backend
development,

algorithms, AI/ML, and data-driven problem solving.</p>

<p>

I enjoy building systems that are both logical and intuitive—from algorithm visualizers to real-world
problem solutions.

to I'm comfortable working in teams, participating in hackathons, and taking ideas from rough concepts structured implementations.

</p>
</section>

<section class="resume-section" id="skills">
<h2>Skills</h2>

<div class="skills-grid">
<article class="skill-group">
<h3>Programming Languages</h3>

Python
C
Java
JavaScript
HTML & CSS

</article>

<article class="skill-group">
<h3>Technologies & Tools</h3>

MySQL
jQuery
Git & GitHub
Tkinter (Python GUI)

</article>

<article class="skill-group">
<h3>Core Strengths</h3>

Data Structures & Algorithms
Backend logic & problem decomposition
AI / ML fundamentals
Competitive programming
Team collaboration & communication

</article>

</div>
</section>

<section class="resume-section" id="projects">
<h2>Projects</h2>

<article class="project">
<h3>Knapsack Visualizer (Brute Force)</h3>
<p class="muted">Web application · HTML, CSS, JavaScript</p>

Built an interactive visualizer that demonstrates how the brute-force 0/1 Knapsack algorithm explores all combinations to find the optimal solution.
Allows users to input item weights, values, and capacity, then step through how the algorithm

evaluates subsets.
Focused on making algorithmic thinking more intuitive through animations and clear UI.

</article>

<article class="project">
<h3>Professor Availability Checker</h3>
<p class="muted">Desktop application · Python, Tkinter, MySQL</p>

Designed a system to help students find when professors are free and schedule appointments
based
on overlapping availability.
Implemented role-based views for students and faculty, with profile and timetable
management.

Strengthened understanding of database design, scheduling logic, and GUI development in
Python.

</article>
</section>

<section class="resume-section" id="hackathons">
<h2>Hackathons & Competitions</h2>

<article class="hackathon">
<h3>Smart India Hackathon (SIH) — Internal College Selection</h3>
<p class="muted">Team project · CMR Institute of Technology</p>

Selected as one of the top 40 teams in CMRIT to upload our solution to the
official SIH portal.
Developed a flood-avoiding route system using Dijkstra's shortest-path
algorithm
to reroute around flooded or blocked roads.
Designed the solution to be IoT-friendly, enabling on-ground sensors to detect flooded areas
and
trigger instant alternate routing.
Strengthened skills in algorithm design, real-world problem solving, and working under time
pressure as a team.

</article>

<article class="hackathon">
<h3>Datathon 3.0 — Analytika (NMIMS) & AWS User Groups</h3>
<p class="muted">FinTech Datathon · Team participation</p>

Collaborated as a team to analyse a real-world fintech dataset, exploring
patterns and risk indicators under tight time constraints.
Performed data cleaning, basic feature engineering, and visualisation to derive insights useful
for decision making.
Gained practical experience in working with financial data and presenting findings clearly to
organisers.

</article>

```

<article class="hackathon">
  <h3>ByteBattle 1.0 — Data Structures & Algorithms Hackathon</h3>
  <p class="muted">CMR Institute of Technology</p>
  <ul>
    <li>Participated in a timed DSA-focused hackathon, solving multiple algorithmic problems as a
team.
    </li>
    <li>Applied graph algorithms, dynamic programming, and greedy strategies while thinking about
time
    and space complexity.</li>
    <li>Improved problem-solving speed, understanding of common patterns, and confidence in
competitive
coding environments.</li>
  </ul>
</article>

<article class="hackathon">
  <h3>Manthan 2025 — FKCCI Innovation & Business Plan Presentation</h3>
  <p class="muted">Project: <em>Desi Data – Advancing India’s AI for Generations to
Come</em></p>
  <ul>
    <li>Proposed a platform that connects AI developers with authentic Indian data contributors,
addressing the lack of India-specific datasets in AI development.</li>
    <li>Highlighted the market potential of India’s growing AI ecosystem and the need for ethical,
anonymised, and privacy-compliant local data.</li>
    <li>Worked as part of a team on concept creation, market analysis, and pitch preparation for the
innovation and business plan track.</li>
  </ul>
</article>
</section>

</div>

<footer class="site-footer">
  <div class="container">© Tamara Cariappa — <span id="year"></span></div>
</footer>

</body>

</html>

```

Contact.html

```

<!doctype html>
<html lang="en">

<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width,initial-scale=1" />
  <title>Tamara Cariappa - Bio</title>

```

```

<!-- Google Fonts -->
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Limelight&family=Poppins:wght@300;400;500;600;700&displa
y=swap"
rel="stylesheet">

<!-- Your stylesheet -->
<link rel="stylesheet" href="style.css" />

<!-- Scripts -->
<script src="jquery-3.7.1.min.js"></script>
<script defer src="main.js"></script>
</head>

<body>
  <header class="site-header">
    <div class="container">
      <a class="logo" href="index.html">Tamara Cariappa</a>
      <nav class="main-nav">
        <a href="index.html">Bio</a>
        <a href="resume.html">Resume</a>
        <a href="education.html">Education</a>
        <a href="contact.html" class="active">Contact</a>
      </nav>
    </div>
  </header>

  <div class="container content contact-page">

    <section class="contact-header">
      <h1>Contact Me</h1>
      <p class="muted">Feel free to reach out for collaborations, opportunities, or just to say hello!</p>
    </section>

    <!-- Contact Information -->
    <section class="contact-info">
      <h2>My Details</h2>

      <ul class="contact-list">
        <li><strong>Email:</strong> <a
href="mailto:tamaracariappa@gmail.com">tamaracariappa@gmail.com</a></li>
        <li><strong>Phone:</strong> <a href="tel:+918660376154">+91 8660376154</a></li>
        <li><strong>GitHub:</strong> <a href="https://github.com/tamaracariappa"
target="_blank">github.com/tamaracariappa</a></li>
        <li><strong>LinkedIn:</strong> <a
href="https://www.linkedin.com/in/tamara-cariappa-1a1a97291/?lipi=urn%3Ali%3Apage%3Ad_flagship3_profil
e_view_base_contact_details%3BtkZYoSikSY2beZJgTW%2BmZQ%3D%3D"
target="_blank">linkedin.com/in/tamara-cariappa</a></li>
        <li><strong>LeetCode:</strong> <a href="https://leetcode.com/tamaracariappa"
target="_blank">leetcode.com/tamaracariappa</a></li>

```

```

        </ul>
    </section>
</div>

<footer class="site-footer">
    <div class="container">
        © Tamara Cariappa — <span id="year"></span>
    </div>
</footer>

</body>

</html>

```

education.html

```

<!doctype html>
<html lang="en">

<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width,initial-scale=1" />
    <title>Education - Tamara Cariappa</title>

    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link

href="https://fonts.googleapis.com/css2?family=Limelight&family=Poppins:wght@300;400;500;600;700&displa
y=swap"
    rel="stylesheet">

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

    <script src="jquery-3.7.1.min.js"></script>
    <script defer src="main.js"></script>
</head>

<body>
    <header class="site-header">
        <div class="container">
            <a class="logo" href="index.html">Tamara Cariappa</a>
            <nav class="main-nav">
                <a href="index.html">Bio</a>
                <a href="resume.html">Resume</a>
                <a href="education.html" class="active">Education</a>
                <a href="contact.html">Contact</a>
            </nav>
        </div>
    </header>

    <div class="container content education-page">

```



```
<section class="education-section">
  <h1>Education</h1>
  <p class="muted">A glimpse into my academic background and the experiences that shaped my technical
journey.</p>
</section>
```

```
<section class="education-entry">
  <h2>CMR Institute of Technology, Bangalore</h2>
  <p class="muted">Bachelor of Engineering (B.E.) — Computer Science and Engineering</p>
  <p class="muted">2023 – 2027 (Expected)</p>
  <ul>
    <li>Core coursework includes Data Structures, Algorithms, Operating Systems, DBMS, and AI/ML
fundamentals.</li>
    <li>Built projects such as a <strong>Knapsack Algorithm Visualizer</strong> and a <strong>Professor
Availability
Checker</strong>.</li>
    <li>Actively participates in SIH, ByteBattle, Datathon 3.0, and Manthan innovation events.</li>
  </ul>
</section>
```

```
<section class="education-entry">
  <h2>NPS Kalkere</h2>
  <p class="muted">PUC — PCMC (Physics, Chemistry, Mathematics, Computer Science)</p>
  <p class="muted">CBSE · Completed in 2023</p>
  <ul>
    <li>Scored <strong>88%</strong> in the board examinations.</li>
    <li>Strengthened foundational concepts in mathematics and computer science.</li>
  </ul>
</section>
```

```
<section class="education-entry">
  <h2>Sacred Heart Girls High School</h2>
  <p class="muted">ICSE · Completed in 2021</p>
  <ul>
    <li>Achieved <strong>92%</strong> in the ICSE board exams.</li>
    <li>Built early interest in problem-solving and logical reasoning.</li>
  </ul>
</section>
```

```
<section class="education-entry">
  <h2>Relevant Experience</h2>
  <p class="muted">Projects, hackathons, and team-based work during my engineering journey.</p>
  <ul>
    <li><strong>SIH Project — Flood Avoiding Route System</strong>
      Developed a Dijkstra-based smart routing system designed for real-time flood detection and IoT sensor
integration.
    </li>
    <li><strong>Datathon 3.0 – FinTech Analysis</strong>
      Worked with a team to interpret financial datasets, uncover patterns, and present insights.
    </li>
  </ul>
```

```
<li><strong>ByteBattle 1.0 – DSA Hackathon</strong>
  Strengthened algorithmic thinking and competitive coding skills through timed problem-solving.
</li>

<li><strong>Manthan 2025 – Desi Data Concept</strong>
  Helped conceptualize and present a platform connecting AI developers with India-specific ethical data
sources.
</li>
</ul>
</section>

</div>

<footer class="site-footer">
  <div class="container">
    © Tamara Cariappa — <span id="year"></span>
  </div>
</footer>

</body>

</html>
```

style.css

```
:root {
  --bg: #FCF5EE;
  --accent-light: #FFC4C4;
  --accent-mid: #EE6983;
  --accent-dark: #850E35;
  --text-dark: #3A3A3A;
  --text-muted: #6B6B6B;
}

body {
  margin: 0;
  padding: 0;
  background-color: var(--bg);
  color: var(--text-dark);
  font-family: "Poppins", sans-serif;
  font-size: 16px;
  letter-spacing: 0.3px;
}

.logo,
h1,
h2,
h3 {
  font-family: "Limelight", sans-serif;
  letter-spacing: 0.5px;
  font-weight: 700;
}
```

```
p,  
li,  
a,  
ul,  
nav a,  
.contact-info,  
.resume-section,  
.education-entry {  
  font-family: "Poppins", sans-serif;  
}  
  
.container {  
  width: 90%;  
  margin: 0 auto;  
}  
  
.site-header {  
  background-color: var(--accent-dark);  
  padding: 15px 0;  
  color: white;  
}  
  
.logo {  
  text-decoration: none;  
  color: white;  
  font-size: 24px;  
}  
  
.main-nav a {  
  margin-right: 20px;  
  text-decoration: none;  
  color: #FFE9E9;  
  font-weight: 500;  
}  
  
.main-nav a:hover,  
.main-nav a.active {  
  color: var(--accent-light);  
}  
  
.content {  
  width: 75%;  
  margin: 40px auto;  
  display: block;  
}  
  
.profile-card {  
  float: left;  
  width: 360px;  
  background-color: var(--accent-light);  
  padding: 25px;  
  border-radius: 14px;  
  margin-right: 40px;
```

```
display: block;
}
```

```
.profile-card img {
width: 100%;
border-radius: 14px;
display: block;
margin: 0 auto;
}
```

```
.profile-card .muted {
color: var(--accent-mid);
font-weight: 500;
}
```

```
.bio {
float: left;
width: 50%;
display: block;
margin-top: 20px;
background-color: #fff7f7;
border-radius: 14px;
padding: 20px;
}
```

```
.bio h2 {
margin: 0 0 10px 0;
}
```

```
.content::after {
content: "";
display: block;
clear: both;
}
```

```
.btn {
display: inline-block;
padding: 10px 18px;
border-radius: 14px;
margin-top: 10px;
text-decoration: none;
font-weight: 600;
font-family: "Poppins", sans-serif;
}
```

```
.btn.primary {
background-color: var(--accent-mid);
color: white;
}
```

```
.btn.ghost {
border: 2px solid var(--accent-mid);
color: var(--accent-mid);
}
```

```
.resume-section,  
.education-entry,  
.contact-info {  
  background-color: #ffffff;  
  padding: 25px;  
  border-radius: 14px;  
  border: 1px solid rgba(0,0,0,0.1);  
  margin-top: 30px;  
}
```

```
.resume-section h2,  
.education-entry h2,  
.contact-info h2 {  
  color: var(--accent-dark);  
}
```

```
.muted {  
  color: var(--text-muted);  
}
```

```
ul {  
  padding-left: 20px;  
  list-style-type: disc;  
}
```

```
.contact-list {  
  list-style: none;  
  padding-left: 0;  
}
```

```
.contact-list li {  
  margin-top: 10px;  
  margin-bottom: 10px;  
}
```

```
.contact-list a {  
  text-decoration: none;  
  font-weight: 600;  
  color: var(--accent-mid);  
  font-family: "Poppins", sans-serif;  
}
```

```
.site-footer {  
  margin-top: 40px;  
  padding: 15px 0;  
  background-color: var(--accent-dark);  
  color: white;  
  text-align: center;  
}
```

main.js

```
var yearSpan = document.getElementById("year");
if (yearSpan) {
    var today = new Date();
    yearSpan.innerText = today.getFullYear();
}

(function () {
    var resumeContainers = document.getElementsByClassName("resume-page");
    if (!resumeContainers || resumeContainers.length === 0) {
        return;
    }

    var sections = resumeContainers[0].getElementsByClassName("resume-section");
    var i;

    for (i = 0; i < sections.length; i++) {
        var section = sections[i];
        var headings = section.getElementsByTagName("h2");
        if (!headings || headings.length === 0) {
            continue;
        }

        var heading = headings[0];

        var contentWrapper = document.createElement("div");
        var node = heading.nextSibling;

        while (node) {
            var nextNode = node.nextSibling;
            contentWrapper.appendChild(node);
            node = nextNode;
        }

        contentWrapper.style.display = "none";
        section.appendChild(contentWrapper);


        heading.innerHTML = '<span class="toggle-indicator">▼ </span>' + heading.innerHTML;

        heading.onclick = (function (wrapper) {
            return function () {
                if (wrapper.style.display === "none") {
                    wrapper.style.display = "block";
                } else {
                    wrapper.style.display = "none";
                }
            };
        })(contentWrapper);
    }
})();
```

Assignment 1 Outputs

Tamara Cariappa

Bio Resume Education Contact



Tamara Cariappa

Computer Science Student - CMR Institute of Technology, Bangalore

Focus Areas

- Backend development & algorithms
- AI / Machine Learning
- Data structures & problem solving
- Competitive programming

View Resume

Let's Connect

About me

Hi, I am Tamara Cariappa studying Computer Science and Engineering at CMR Institute of Technology, Bangalore. I love writing code and pondering over problems in terms of logic, structure, and efficiency. I am most interested in backend development, algorithms, and the recent world of AI and machine learning.

I develop things that make concepts easier to understand or utilize. Currently, I have developed a Knapsack Visualizer website which demonstrates the brute-force knapsack algorithm at work. I have also written code for a Professor Availability Checker in Python, which aims to find the best time to meet with faculty using students' schedules.

People often describe me as curious, logical, and a bit of a perfectionist. I like breaking problems down into smaller pieces, experimenting, and polishing details until they feel just right. Long term, I see myself working as an AI researcher or data scientist, using data and models to answer interesting questions.

When I'm not coding, I usually read fiction books, swim to clear my mind, or knit while catching a movie. I speak Kannada and English; I am somewhat shy initially, but I warm up in no time--I can yap a lot when comfortable!

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Tamara Cariappa

Bio Resume Education Contact

Resume

Computer Science and Engineering student with a strong interest in backend development, algorithms, AI/ML, and data-driven problem solving.

I enjoy building systems that are both logical and intuitive—from algorithm visualizers to real-world problem solutions. I'm comfortable working in teams, participating in hackathons, and taking ideas from rough concepts to structured implementations.

Skills

Projects

Hackathons & Competitions

© Tamara Cariappa — 2025

Tamara Cariappa

BioResumeEducationContact

Resume

Computer Science and Engineering student with a strong interest in backend development, algorithms, AI/ML, and data-driven problem solving.

I enjoy building systems that are both logical and intuitive—from algorithm visualizers to real-world problem solutions. I'm comfortable working in teams, participating in hackathons, and taking ideas from rough concepts to structured implementations.

Skills

Programming Languages

- Python
- C
- Java
- JavaScript
- HTML & CSS

Technologies & Tools

- MySQL
- jQuery
- Git & GitHub
- Tkinter (Python GUI)

Core Strengths

- Data Structures & Algorithms
- Backend logic & problem decomposition
- AI / ML fundamentals

Tamara Cariappa

BioResumeEducationContact

Education

A glimpse into my academic background and the experiences that shaped my technical journey.

CMR Institute of Technology, Bangalore

Bachelor of Engineering (B.E.) — Computer Science and Engineering

2023 – 2027 (Expected)

- Core coursework includes Data Structures, Algorithms, Operating Systems, DBMS, and AI/ML fundamentals.
- Built projects such as a **Knapsack Algorithm Visualizer** and a **Professor Availability Checker**.
- Actively participates in SIH, ByteBattle, Datathon 3.0, and Manthan innovation events.

NPS Kalkere

PUC — PCMC (Physics, Chemistry, Mathematics, Computer Science)

CBSE · Completed in 2023

- Scored **88%** in the board examinations.
- Strengthened foundational concepts in mathematics and computer science.

Sacred Heart Girls High School

Tamara Cariappa

[Bio](#) [Resume](#) [Education](#) [Contact](#)

Contact Me

Feel free to reach out for collaborations, opportunities, or just to say hello!

My Details

Email: tamaracariappa@gmail.com

Phone: [+91 8660376154](tel:+918660376154)

GitHub: github.com/tamaracariappa

LinkedIn: [linkedin.com/in/tamara-cariappa](https://www.linkedin.com/in/tamara-cariappa)

LeetCode: leetcode.com/tamaracariappa

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127.0.0.1:5500/Assignment1/contact.html

Assignment 1 – Sohan B 1CR23CS190

Index.html

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Sohan B | Portfolio</title>

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

  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

</head>


<body>

  <header>

    <div class="container">

      <div>

        <h1 class="name">Sohan B</h1>


        <div class="links">

          <a href="index.html" class="link-btn">Home</a>

          <a href="projects.html" class="link-btn">Projects</a>

          <a href="mailto:sohanb0604@example.com" class="link-btn">Email</a>

          <a href="https://github.com/sobs64" target="_blank" class="link-btn">GitHub</a>

          <a href="https://www.linkedin.com/in/sohan-b-1a0608292" target="_blank" class="link-btn">LinkedIn</a>

        </div>

      </div>

    </div>

  </header>


  <main class="container">


    <!-- ABOUT -->

    <section class="card">
```

<h2>About</h2>

<p>

I am an engineering student passionate about building practical, user-focused applications — especially in
web development, React Native, AI-powered tools, and system design.

I enjoy creating real-world projects such as travel planners, authentication systems, and automation workflows.

I actively participate in developer communities, hackathons, workshops, and internship programs, always exploring how

technology can create simple, meaningful solutions for people.

</p>

</section>

<!-- EXPERIENCE -->

<section class="card">

<h2>Experience</h2>

<div class="exp-header">

<h3>Developer Student Club (DSC)</h3>

2023 – Present

</div>

<p>President — Web Development</p>

Contributed to student developer initiatives, projects, and peer mentorship.

Supported technical events, workshops, and hands-on learning programs.

</section>

<!-- SKILLS -->

<section class="card">

<h2>Skills</h2>

<h4>Languages:</h4>

<p>JavaScript, Python, SQL, Java, C</p>

<h4>Frameworks & Tools:</h4>

<p>React Native, Expo, Firebase Auth, Node.js, Express, Git/GitHub</p>

<h4>Libraries</h4>

<p>TensorFlow, PyTorch, Scikit-learn, Keras, NumPy, Pandas, Matplotlib, Seaborn, OpenCV</p>

<h4>Mobile Development:</h4>

<p>React Native UI, Google OAuth, API Integration, State Management</p>

<h4>Other Areas:</h4>

<p>UI/UX Wireframing, API Design, SQL Databases, Authentication Flows</p>

</section>

<!-- ACHIEVEMENTS -->

<section class="card">

<h2>Achievements</h2>

<div>

<div class="achievement-item" onclick="toggleAchievement(this)">

<div>

1st Place - HackVerse 2025

▼

</div>

<div class="achievement-details">

<div class="achievement-image">

</div>

<div>

<p>Organizer: MIT Bengaluru (AWS & IBM)</p>

<p>No. of Teams: 400+ Teams</p>

<p>Project: AI-powered cybersecurity platform that simplifies log analysis</p>

<p>Award: First Place</p>

<p>Prize: ₹20,000 </p>

</div>

</div>

</div>

<div class="achievement-item" onclick="toggleAchievement(this)">

<div>

1st Place - DSA Hackathon 2025

▼

</div>

<div class="achievement-details">

<div class="achievement-image">

</div>

<div>

<p>Organizer: Department of CSE, CMRIT</p>

<p>No. of Teams: 120+ Participants</p>

<p>Project: Advanced Graph Algorithms</p>

<p>Award: First Place </p>

</div>

</div>

</div>

</div>

<div class="achievement-item" onclick="toggleAchievement(this)">

<div>

3rd Place - ByteBattles 1.0

▼

</div>

<div class="achievement-details">

<div class="achievement-image">

</div>

<div>

<p>Organizer: Department of Placement, CMRIT</p>

<p>No. of Teams: 240+ Participants</p>

<p>Project: Doctor-Patient Appointment System + DSA Competitive Coding</p>

<p>Award: Third Place </p>

</div>

</div>

</div>

</div>

</section>

<!-- POSITIONS -->

<section class="card">

<h2>Positions of Responsibility</h2>

<div>

<h4>Developer Student Club — President</h4>

<p>

Led the Developer Student Club by organizing technical workshops, managing project teams, and fostering a collaborative learning environment. Guided members through hands-on development activities and community initiatives that strengthened technical skills across the club.

</p>

<h4>Computer Science Student Senate — Sports Senator</h4>

<p>

Represented the Computer Science department in the Student Senate by coordinating sports-related initiatives, managing inter-department events, and ensuring active student participation. Worked closely with faculty and student leaders to organize tournaments, maintain schedules, and promote a healthy, active campus environment.

</p>

</div>

</section>

</main>

<footer>

<div class="container">

<p>Portfolio © Sohan B</p>

```
</div>

</footer>


<script>

function toggleAchievement(element) {

    element.classList.toggle('active');

}


$(document).ready(function() {

    $(".card").hide().fadeIn(800);

});

</script>


</body>

</html>
```

projects.html

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Projects | Sohan B</title>

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

    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>


    <style>

        .projects-grid {

            display: grid;

            grid-template-columns: 1fr 1fr;

            gap: 32px;

            margin-bottom: 40px;

            justify-content: start;

            margin-left: -165px;
```

```
}
```

```
.project-card {  
  background: white;  
  border: 1px solid #d5dce6;  
  border-radius: 10px;  
  padding: 24px;  
  width: 680px;  
}
```

```
.project-title {  
  font-size: 2rem;  
  font-weight: 600;  
  margin-bottom: 32px;  
  text-align: center;  
}
```

```
.video-container {  
  width: 100%;  
  aspect-ratio: 16 / 9;  
  border-radius: 8px;  
  overflow: hidden;  
  margin-bottom: 20px;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<header>
```

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

```
<h1 class="name">Projects</h1>
```

```
<div class="links">
```

```
<a href="index.html" class="link-btn">Home</a>
```

```
<a href="projects.html" class="link-btn">Projects</a>
```



```
<a href="mailto:your-email@example.com" class="link-btn">Email</a>
</div>
</div>
</header>

<main class="container">
  <div class="projects-grid">

    <!-- MoodTrip AI -->
    <div class="project-card">
      <h2 class="project-title">MoodTrip AI — AI Travel Planner</h2>
      <div class="video-container">
        <iframe width="100%" height="100%" src="https://www.youtube.com/embed/fH4Xn8e6klk"
frameborder="0" allowfullscreen></iframe>
      </div>
      <p>
        MoodTrip AI is a React Native travel planner that creates custom itineraries based on mood, weather,
        budget, location, and preferences. Includes AI suggestions, map integration, and itinerary sharing.
      </p>
      <ul>
        <li>Google Maps API + AI recommendations</li>
        <li>React Native + Expo + Firebase auth</li>
        <li>Custom travel mood detection logic</li>
      </ul>
    </div>

    <!-- Loan Advisor -->
    <div class="project-card">
      <h2 class="project-title">Loan Advisor — Multilingual Conversational App</h2>
      <div class="video-container">
        <iframe width="100%" height="100%" src="https://www.youtube.com/embed/4ijSa7BhjLg" frameborder="0"
allowfullscreen></iframe>
      </div>
      <p>
        A React Native app that explains loan eligibility, documents, and financial concepts in multiple languages.
      </p>
```


Multilingual conversational flows

OCR, document validation, fraud detection

Voice + text interface

</div>

<!-- Inventory Manager -->

<div class="project-card">

<h2 class="project-title">Farmako+ — Medical Appointment & Pharmacy Assistant</h2>

<div class="video-container">

<iframe width="100%" height="100%" src="https://youtube.com/embed/q7vUWzGn_xA" frameborder="0" allowfullscreen></iframe>

</div>

<p>

Farmako+ is a smart healthcare assistant designed to help users easily book medical appointments, manage prescriptions, and access pharmacy services. The system streamlines doctor availability tracking, appointment scheduling, and medicine lookup through a clean, user-friendly interface.

</p>

Doctor availability dashboard with real-time updates

Appointment booking system with patient scheduling workflow

Pharmacy module for checking medicine stock and alternatives

Integrated user authentication and profile management

Built with React / React Native UI and SQL-based backend

</div>

<!-- Virtual Lab: TSP -->

<div class="project-card">

<h2 class="project-title">Virtual Lab — Traveling Salesman Problem (TSP)</h2>

<p>

A virtual interactive platform where students can learn TSP concepts visually.

</p>

Graph plotting + dynamic path visualizer

```
        <li>Brute force, Greedy, DP, and heuristic methods</li>
        <li>Educational UI similar to Virtual Labs</li>
    </ul>
</div>

</div>
</main>

<footer>
    <div class="container">
        <p>Portfolio © Sohan B</p>
    </div>
</footer>

</body>
</html>
```

styles.css

```
/* your original style.css reused exactly as uploaded */
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}

body {
    font-family: Arial, sans-serif;
    background: #f6f7fa;
    color: #1e293b;
    line-height: 1.6;
}

.container {
    max-width: 1100px;
```

```
margin: auto;
padding: 0 20px;
}
```

```
header {
  background: #093159;
  color: white;
  padding: 60px 0;
  text-align: center;
  margin-bottom: 50px;
}
```

```
.name {
  font-size: 2.75rem;
  font-weight: 700;
}
```

```
.links {
  margin-top: 20px;
  display: flex;
  justify-content: center;
  gap: 14px;
  flex-wrap: wrap;
}
```

```
.link-btn {
  text-decoration: none;
  color: white;
  padding: 10px 18px;
  border-radius: 6px;
  background: rgba(255, 255, 255, 0.18);
}
```

```
main {
  margin-top: 60px;
```

```
display: flex;
flex-direction: column;
gap: 40px;
}
```

```
.card {
background: white;
padding: 32px;
border-radius: 10px;
border: 1px solid #e2e8f0;
}
```

```
.exp-header {
display: flex;
justify-content: space-between;
}
```

```
.achievement-item {
background: #f5f7fa;
padding: 14px;
border-radius: 8px;
border: 1px solid #d5dce6;
margin-bottom: 18px;
}
```

```
.achievement-details {
display: none;
margin-top: 12px;
}
```

```
.achievement-item.active .achievement-details {
display: block;
}
```

```
.achievement-image {
```

margin-bottom: 16px;

}

.achievement-image img {

max-width: 100%;

height: auto;

max-height: 450px;

width: 400px;

object-fit: cover;

border-radius: 8px;

}

footer {

margin-top: 80px;

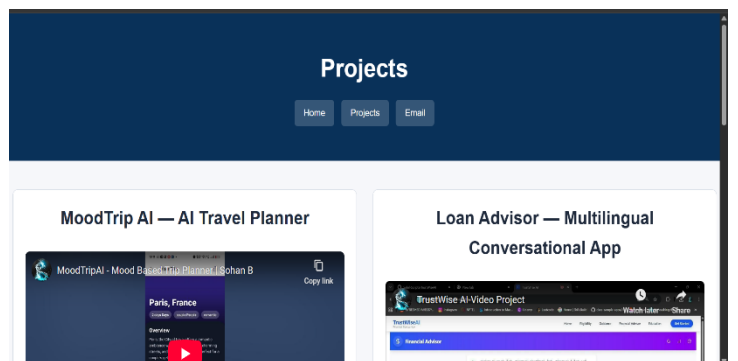
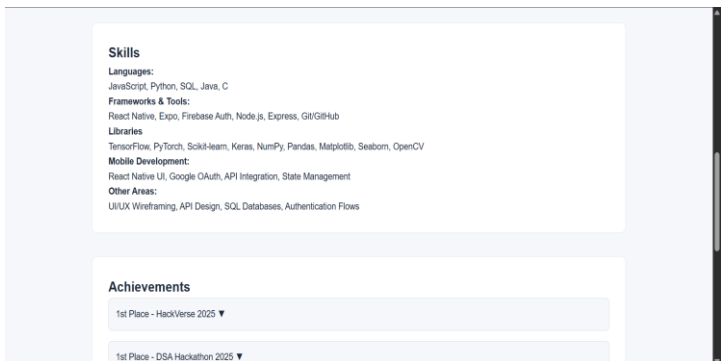
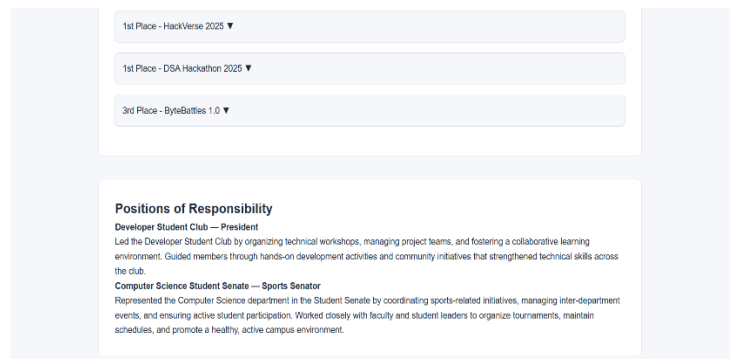
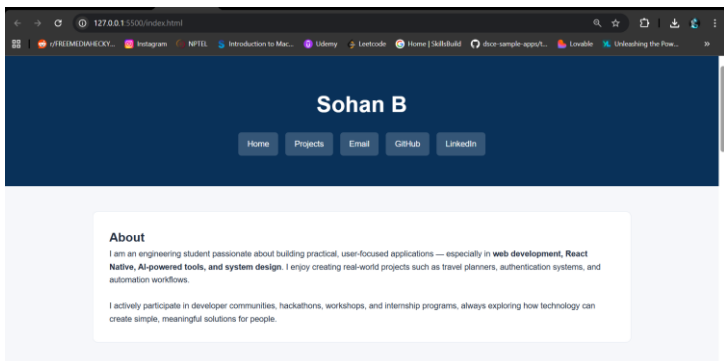
background: #093159;

color: white;

text-align: center;

padding: 24px 0;

}



Assignment 2 - Tamara Cariappa, 1CR23CS197

- Sohan B, 1CR23CS190

index.html

```
<!DOCTYPE html>
<html>

<head>
  <title>Library Card Registration Form</title>
  <link rel="stylesheet" href="style.css">
</head>

<body style="background-color: #FFFAFA">
  <center>
    <div id="div-container">
      <h1>Library Card Registration Form</h1>
      <table>
        <form method="post" action="library.php">
          <tr>
            <th>
              <label for="Fname">First Name: </label>
            </th>
            <td>
              <input type="text" id="Fname" name="Fname" placeholder="Tamara" required>
              <label for="Lname" style="font-weight: bold;">Last Name: </label>
              <input type="text" id="Lname" name="Lname" placeholder="Cariappa" required>
            </td>
          </tr>
        </form>
      </table>
    </div>
  </center>
</body>
</html>
```

```

        </td>
    </tr>

    <tr>
        <th>
            <label for="Email">Email Id: </label>
        </th>
        <td>
            <input type="email" id="Email" name="Email" placeholder="tamara@example.com"
required>
        </td>
    </tr>

    <tr>
        <th>
            <label for="PhoneNumber">Phone Number: </label>
        </th>
        <td>
            <input type="tel" id="PhoneNumber" name="PhoneNumber" placeholder="9874563210"
required>
        </td>
    </tr>

    <tr>
        <th>
            <label for="Gender">Gender: </label>
        </th>
        <td>
            <label for="Female">Female</label>
            <input type="radio" id="Female" name="Gender" value="Female">
            <label for="Male">Male</label>
            <input type="radio" id="Male" name="Gender" value="Male">
            <label for="Other">Other</label>
            <input type="radio" id="Other" name="Gender" value="Other">
        </td>
    </tr>

    <tr>
        <th>
            <label for="Dob">Date of Birth: </label>
        </th>
        <td>
            <input type="date" id="Dob" name="Dob">
        </td>
    </tr>

    <tr>
        <th>
            <label for="Address">Address: </label>
        </th>
        <td>
            <textarea id="Address" name="Address" rows="3" cols="55"
placeholder="House no, Street, City, Pincode"></textarea>
        </td>
    </tr>

```


</tr>

<tr>

<th>

<label for="Collegeld">College ID / USN: </label>

</th>

<td>

<input type="text" id="Collegeld" name="Collegeld" placeholder="1CR23CS197" required>

</td>

</tr>

<tr>

<th>

<label for="Dept">Department: </label>

</th>

<td>

<select id="Dept" name="Dept">

<option value="CSE">CSE</option>

<option value="ISE">ISE</option>

<option value="ECE">ECE</option>

<option value="EEE">EEE</option>

<option value="ME">ME</option>

<option value="CIVIL">CIVIL</option>

</select>

</td>

</tr>

<tr>

<th>

<label for="Year">Year of Study: </label>

</th>

<td>

<select id="Year" name="Year">

<option value="1st Year">1st Year</option>

<option value="2nd Year">2nd Year</option>

<option value="3rd Year">3rd Year</option>

<option value="4th Year">4th Year</option>

</select>

</td>

</tr>

<tr>

<th>

<label for="CardType">Library Card Type: </label>

</th>

<td>

<label for="Student">Student</label>

<input type="radio" id="Student" name="CardType" value="Student">

<label for="Faculty">Faculty</label>

<input type="radio" id="Faculty" name="CardType" value="Faculty">

<label for="External">External</label>

<input type="radio" id="External" name="CardType" value="External">

</td>

</tr>

```

<tr>
  <th>
    <label for="Genres">Preferred Genres: </label>
  </th>
  <td>
    <label for="Fiction">Fiction</label>
    <input type="checkbox" id="Fiction" name="Genres[]" value="Fiction">
    <label for="NonFiction">Non-Fiction</label>
    <input type="checkbox" id="NonFiction" name="Genres[]" value="Non-Fiction">
    <label for="SciFi">Sci-Fi</label>
    <input type="checkbox" id="SciFi" name="Genres[]" value="Sci-Fi">
    <label for="Mystery">Mystery</label>
    <input type="checkbox" id="Mystery" name="Genres[]" value="Mystery">
    <label for="Academic">Academic</label>
    <input type="checkbox" id="Academic" name="Genres[]" value="Academic">
  </td>
</tr>

<tr>
  <th>
    <label for="IssueDate">Card Issue Date: </label>
  </th>
  <td>
    <input type="date" id="IssueDate" name="IssueDate">
  </td>
</tr>

<tr>
  <th>
    <label for="Password">Set PIN / Password: </label>
  </th>
  <td>
    <input type="password" id="Password" name="Password">
  </td>
</tr>

<tr>
  <th>
    <label for="Comments">Remarks: </label>
  </th>
  <td>
    <textarea id="Comments" name="Comments" rows="4" cols="55"
      placeholder="Any special requests or notes"></textarea>
  </td>
</tr>

<tr>
  <th>
    <label for="Declaration">Declaration</label>
  </th>
  <td>
    <input type="radio" id="Declaration" name="Declaration" value="True" required>
    I confirm that the above information is correct and I agree to follow the library rules.
  </td>
</tr>

```

```

        </td>
    </tr>

    <tr>
        <td colspan="2" style="text-align: center;">
            <input type="submit" name="Submit" value="Register" id="submit-reset" />
            <input type="reset" name="Reset" value="Reset" id="submit-reset"
                style="margin-left: 50px;" />
        </td>
    </tr>

    <tr style="color: #7D1C4A;">
        <th colspan="2" style="text-align: right; font-size: medium;">
            1CR23CS197, Tamara Cariappa, C2
        </th>
    </tr>
</form>
</table>
</div>
</center>
</body>

</html>

```

style.css

```

#div-container{
    width: 1000px;
    height: 1200px;
    border: 1px solid hotpink;
    border-radius: 12px;
    padding-bottom: 10px;
}

table{
    font-size: larger;
    border-spacing: 20px;
    background-color: #ffeaea;
    border-radius: 12px;
    box-shadow: 1px 4px 12px #96326c33;
}

th{
    text-align: right;
}

input, select, textarea{
    padding-left: 3px;
    border: solid 1px hotpink;
    font-size: large;
    height: fit-content;
    border-radius: 10px;
}

```

```

padding: 8px;
}

input::placeholder{
color: #AC1754;
}

input:focus{
border-color: #7D1C4A;
outline: none;
box-shadow: 0 0 5px #7D1C4A;
}

label{
text-align: right;
padding: 10px;
color:#AC1754;
font-weight:bold;
}

h1{
margin: 20px;
padding-top: 10px;
color: #7D1C4A;
}

#submit-reset{
background-color: #D50B8B;
color: white;
font-weight: bold;
cursor: pointer;
}

#submit-reset:hover{
background-color: #f04ab3;
}

```

library.php

```

<?php
$servername = "localhost";
$username = "root";
$password = "TamaraCariappa@18";
$dbname = "librarydb";
$conn = mysqli_connect($servername, $username, $password, $dbname);

if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

if (isset($_POST['Submit'])) {

```

```

$Fname = $_POST['Fname'];
$Lname = $_POST['Lname'];
$Email = $_POST['Email'];
$PhoneNumber = $_POST['PhoneNumber'];
$Gender = isset($_POST['Gender']) ? $_POST['Gender'] : "";
$Dob = $_POST['Dob'];
$Address = $_POST['Address'];
$Collegeld = $_POST['Collegeld'];
$Dept = $_POST['Dept'];
$Year = $_POST['Year'];
$CardType = isset($_POST['CardType']) ? $_POST['CardType'] : "";
$IssueDate = $_POST['IssueDate'];
$Password = $_POST['Password'];
$Comments = $_POST['Comments'];
$Declaration = isset($_POST['Declaration']) ? $_POST['Declaration'] : "";

$Genres = "";
if (isset($_POST['Genres']) && is_array($_POST['Genres'])) {
    $Genres = implode(" ", $_POST['Genres']);
}

$sql = "INSERT INTO library_cards
(first_name, last_name, email, phone, gender, dob, address, college_id, dept, year, card_type, genres,
issue_date, password, comments, declaration)
VALUES
('$Fname', '$Lname', '$Email', '$PhoneNumber', '$Gender', '$Dob', '$Address', '$Collegeld', '$Dept',
'$Year', '$CardType', '$Genres', '$IssueDate', '$Password', '$Comments', '$Declaration')";

mysqli_query($conn, $sql);
}
?>
<!DOCTYPE html>
<html>

<head>
<title>Library Registration - Save & View</title>
<link rel="stylesheet" href="style4.css">
</head>

<body style="background-color: #FFFAFA">
<center>
<div id="div-container">
<h1>Library Card Registrations</h1>

<p>
<a href="library_form.html">Back to Registration Form</a>
</p>

<?php

$sql_select = "SELECT * FROM library_cards";
$result = mysqli_query($conn, $sql_select);

if ($result && mysqli_num_rows($result) > 0) {

```

```

echo "<table border='1' cellpadding='8' cellspacing='0'>";
echo "<tr style='background-color:#F8E1EC;'>
    <th>ID</th>
    <th>Name</th>
    <th>Email</th>
    <th>Phone</th>
    <th>Gender</th>
    <th>DOB</th>
    <th>College ID</th>
    <th>Dept</th>
    <th>Year</th>
    <th>Card Type</th>
    <th>Genres</th>
    <th>Issue Date</th>
    <th>Comments</th>
</tr>";

```

```

while ($row = mysqli_fetch_assoc($result)) {
    echo "<tr>";
    echo "<td>" . $row['id'] . "</td>";
    echo "<td>" . $row['first_name'] . " " . $row['last_name'] . "</td>";
    echo "<td>" . $row['email'] . "</td>";
    echo "<td>" . $row['phone'] . "</td>";
    echo "<td>" . $row['gender'] . "</td>";
    echo "<td>" . $row['dob'] . "</td>";
    echo "<td>" . $row['college_id'] . "</td>";
    echo "<td>" . $row['dept'] . "</td>";
    echo "<td>" . $row['year'] . "</td>";
    echo "<td>" . $row['card_type'] . "</td>";
    echo "<td>" . $row['genres'] . "</td>";
    echo "<td>" . $row['issue_date'] . "</td>";
    echo "<td>" . $row['comments'] . "</td>";
    echo "</tr>";
}

```

```

echo "</table>";
} else {
    echo "<p>No registrations yet.</p>";
}

```

```

mysqli_close($conn);
?>

```

```

<br>
<p style="color: #7D1C4A; text-align: right; width: 100%;">
    1CR23CS197, Tamara Cariappa, C2
</p>
</div>
</center>
</body>

</html>

```

Assignment 2 Outputs

```
mysql> USE librarydb;
Database changed
mysql> CREATE TABLE library_cards (
  ->   id INT AUTO_INCREMENT PRIMARY KEY,
  ->   first_name VARCHAR(50),
  ->   last_name VARCHAR(50),
  ->   email VARCHAR(100),
  ->   phone VARCHAR(20),
  ->   gender VARCHAR(10),
  ->   dob DATE,
  ->   address VARCHAR(255),
  ->   college_id VARCHAR(30),
  ->   dept VARCHAR(50),
  ->   year VARCHAR(20),
  ->   card_type VARCHAR(20),
  ->   genres VARCHAR(255),
  ->   issue_date DATE,
  ->   password VARCHAR(100),
  ->   comments VARCHAR(255),
  ->   declaration VARCHAR(10)
  -> );
Query OK, 0 rows affected (0.14 sec)
```

```
mysql> SHOW TABLES;
+-----+
| Tables_in_librarydb |
+-----+
| library_cards        |
+-----+
1 row in set (0.06 sec)
```

```
mysql> select * from library_cards;
```

id	first_name	last_name	email	phone	gender	dob	address	college_id	dept	year	card_type	genres	issue_date	password	comments	declaration
1	Tanara	Cariappa	taca23cs@cmrit.ac.in	123456789	Female	2025-01-28	351, 7th Main, Bangalore - 560008	1CR23CS197	CSE	2nd Year	Student	Fiction, Sci-Fi, Mystery	2025-12-08	123456789	first entry	True

```
1 row in set (0.00 sec)
```

Library Card Registration Form

First Name:

Tamara

Last Name:

Cariappa

Email Id:

tamara@example.com

Phone Number:

9874563210

Gender:**Female**☐**Male**☐**Other**☐**Date of Birth:**

dd-mm-yyyy

Address:

House no, Street, City, Pincode

College ID / USN:

1CR23CS197

Department:

CSE ▾

Year of Study:

1st Year ▾

Library Card Type:**Student**☐**Faculty**☐**External**☐**Preferred Genres:****Fiction**☐**Non-Fiction**☐**Sci-Fi**☐**Mystery**☐**Academic**☐**Card Issue Date:**

dd-mm-yyyy

Set PIN / Password:**Remarks:**

Any special requests or notes

Declaration☐ I confirm that the above information is correct and I agree to follow the library rules.

Register

Reset

1CR23CS197, Tamara Cariappa, C2

Library Card Registrations

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ID	Name	Email	Phone	Gender	DOB	College ID	Dept	Year	Card Type	Genres	Issue Date	Comments
1	Tamara Cariappa	taca23cs@cmrit.ac.in	123456789	Female	2025-01-28	1CR23CS197	CSE	2nd Year	Student	Fiction, Sci-Fi, Mystery	2025-12-08	first entry

1CR23CS197, Tamara Cariappa, C2

Library Card Registrations

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ID	Name	Email	Phone	Gender	DOB	College ID	Dept	Year	Card Type	Genres	Issue Date	Comments
1	Tamara Cariappa	taca23cs@cmrit.ac.in	123456789	Female	2025-01-28	1CR23CS197	CSE	2nd Year	Student	Fiction, Sci-Fi, Mystery	2025-12-08	first entry
2	Ritu Upadhayaya	riup23cs@cmrit.ac.in	7878131368	Female	2024-12-30	1CR23CS147	ISE	3rd Year	Student	Fiction, Mystery	2025-12-08	second entry

1CR23CS197, Tamara Cariappa, C2