

## **Front-End UI/UX Mini Project**

### **Personal Portfolio Website**

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- **Course:** *UI/UX Design Fundamentals*
- **Instructor Name:** *Mr. Dhiraj*
- **Institution:** *Christ University*
- **Date of Submission:** *11/08/2025*

### **Abstract**

This project involves designing and developing a responsive personal portfolio website to showcase the skills, projects, and achievements of Benjamin Luke Mendes. The portfolio is built using HTML and CSS, with a focus on clean UI, responsive layouts, and a visually appealing design. The website highlights technical skills in AI/ML, programming, and web development, and includes dedicated sections for personal information, career objectives, skills, projects, and achievements.

### **Objectives**

- Design a user-friendly interface using modern UI principles
- Develop a fully responsive layout using only HTML and CSS
- Implement structured HTML5 semantic elements
- Apply CSS styling for branding, layout, and responsive behavior
- Ensure accessibility and readability across devices

Scope of the Project

- Focused on front-end design only
- No JavaScript or server-side integration
- Intended for desktop, tablet, and mobile viewports
- Used only open-source tools and pure code (no libraries)

Tools & Technologies Used

Tool/Technology	Purpose
HTML5	Markup and content structure
CSS3	Styling and layout management
VS Code	Code editor
Chrome DevTools	Testing and debugging

HTML Structure Overview

- Used semantic tags: <header>, <nav>, <main>, <section>, <footer>
- Structured into reusable sections: About, Projects, Contact
- Navigation menu using <ul> and anchor links for smooth scrolling

CSS Styling Strategy

- Used external CSS file (style.css)
- Organized with comments and sections
- Techniques used:
  - Flexbox and Grid for layout
  - Media Queries for responsiveness
  - CSS Variables for theme customization
  - Hover effects and transitions
  - Mobile-first design approach

## Key Features

Feature	Description
<b>Responsive Design</b>	Adapts seamlessly to all screen sizes
<b>Smooth Navigation</b>	Fixed top nav with anchor links
<b>Project Cards</b>	Flex-based layout with hover effects
<b>Contact Form (non-functional)</b>	Placeholder layout for inputs and button
<b>Accessible Fonts &amp; Colors</b>	High contrast and readable typography

## Challenges Faced & Solutions

Challenge	Solution
<b>Overlapping elements on small screens</b>	Used media queries to stack elements
<b>Difficulty aligning items using float</b>	Shifted to Flexbox and Grid
<b>Typography scaling issue</b>	Used relative units (em/rem) instead of px

## Outcome

- Achieved a clean, consistent, and visually engaging front-end layout
- All key components function as intended using just HTML and CSS
- Learned about layout responsiveness and UI hierarchy in depth

## Future Enhancements

- Add JavaScript for interactivity (form validation, dynamic content)
- Integrate animations or transitions
- Backend integration for form submission
- Theme toggler (light/dark mode)

## Sample Code

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8" />
5    <meta name="viewport" content="width=device-width, initial-scale=1" />
6    <title>Benjamin Luke Mendes - Portfolio</title>
7    <link rel="stylesheet" href="styles.css" />
8  </head>
9  <body>
10   <header>
11     <h1>Benjamin Luke Mendes</h1>
12     <nav>
13       <a href="#about">About</a>
14       <a href="#career">Objective</a>
15       <a href="#skills">Skills</a>
16       <a href="#projects">Projects</a>
17       <a href="#achieve">Achievements</a>
18       <a href="#contact">Contact</a>
19     </nav>
20   </header>
21
22   <main>
23     <section id="about">
24       <h2>Personal Information</h2>
25       <ul>
26         <li>Course: BTech in Computer Science & Engineering (Specialization: Artificial Intelligence & Machine Learning)</li>
27         <li>University: Christ University, Bangalore</li>
28         <li>Year: 2nd Year (2025)</li>
29       </ul>
```

```
30     </section>
31
32     <section id="career">
33       <h2>Career Objective</h2>
34       <p>
35         Aspiring AI/ML engineer passionate about leveraging technology to solve real-world problems. Seeking opportunities to deepen practical skills in artificial
36       </p>
37     </section>
38
39     <section id="skills">
40       <h2>Technical Skills</h2>
41       <ul>
42         <li>Programming Languages</li>
43         <div class="skill-icons">
44           <div class="skill-item">
45             
46             <span>Python</span>
47           </div>
48           <div class="skill-item">
49             
50             <span>C++</span>
51           </div>
52           <div class="skill-item">
53             
54             <span>Java</span>
55           </div>
56           <div class="skill-item">
57             
58             <span>HTML</span>
59           </div>
```

```

59     </div>
60     <div class="skill-item">
61         
62         <span>CSS</span>
63     </div>
64     <div class="skill-item">
65         
66         <span>JavaScript</span>
67     </div>
68 </div>
69
70     <li>AI/ML Technologies: scikit-learn, TensorFlow, Keras, PyTorch</li>
71     <li>Web Development: HTML, CSS, JavaScript, Flask</li>
72     <li>Databases: MySQL, MongoDB</li>
73     <li>Tools: Jupyter Notebook, Google Colab, Git, VS Code</li>
74     <li>Other Skills: Data Analysis, Data Visualization (Matplotlib, Seaborn), Basic DevOps Concepts</li>
75 </ul>
76 </section>
77
78 <section id="projects">
79     <h2>Projects</h2>
80     <ol>
81         <li><b>Student Performance Prediction System:</b> Developed a machine learning model using scikit-learn to predict student performance based on academic an
82         <li><b>Fake News Detection:</b> Built and trained a natural language processing classifier with Python (NLP) to detect fake news articles using logistic re
83         <li><b>Personal Portfolio Website:</b> Created a responsive personal portfolio website using HTML, CSS, JavaScript, and Flask to showcase projects and skill
84     </ol>
85 </section>
86
87 <section id="achieve">

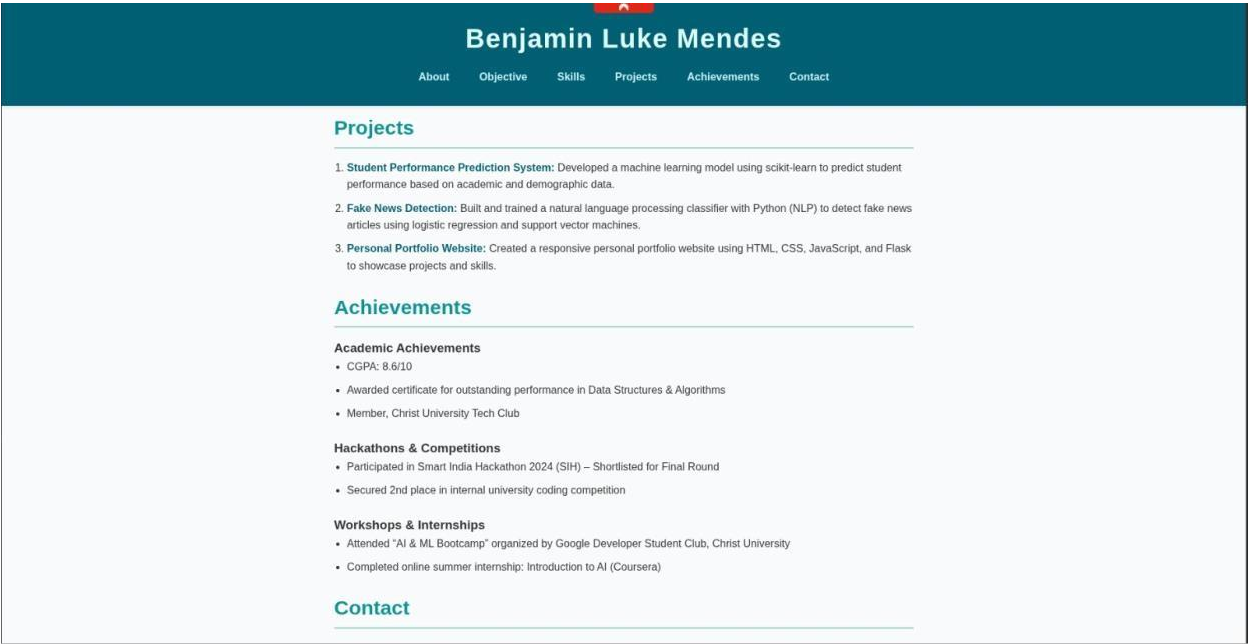
```

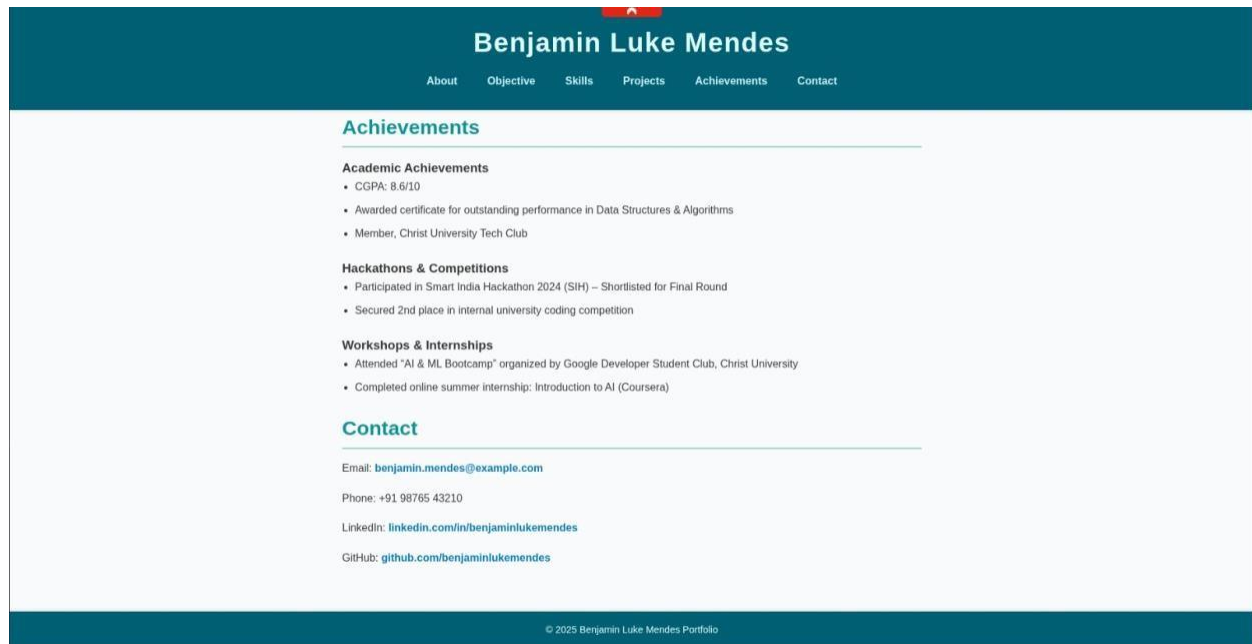
```

88     <h2>Achievements</h2>
89     <h3>Academic Achievements</h3>
90     <ul>
91         <li>CGPA: 8.6/10 </li>
92         <li>Awarded certificate for outstanding performance in Data Structures & Algorithms</li>
93         <li>Member, Christ University Tech Club</li>
94     </ul>
95     <h3>Hackathons & Competitions</h3>
96     <ul>
97         <li>Participated in Smart India Hackathon 2024 (SIH) - Shortlisted for Final Round</li>
98         <li>Secured 2nd place in internal university coding competition</li>
99     </ul>
100    <h3>Workshops & Internships</h3>
101    <ul>
102        <li>Attended "AI & ML Bootcamp" organized by Google Developer Student Club, Christ University</li>
103        <li>Completed online summer internship: Introduction to AI (Coursera)</li>
104    </ul>
105 </section>
106
107 <section id="contact">
108     <h2>Contact</h2>
109     <p>Email: <a href="mailto:benjamin.mendes@example.com">benjamin.mendes@example.com</a></p>
110     <p>Phone: +91 98765 43210</p>
111     <p>LinkedIn: <a href="https://www.linkedin.com/in/benjaminlukemendes" target="_blank" rel="noopener noreferrer">linkedin.com/in/benjaminlukemendes</a></p>
112     <p>GitHub: <a href="https://github.com/benjaminlukemendes" target="_blank" rel="noopener noreferrer">github.com/benjaminlukemendes</a></p>
113 </section>
114 </main>
115
116 <footer>
117     &copy; 2025 Benjamin Luke Mendes Portfolio
118 </footer>
119 </body>
120 </html>

```

# Screenshots of Final Output





## Conclusion

This is a personal portfolio website that showcases the user's skills, projects, resume, and contact form. This mini project helped us strengthen our front-end development skills using only HTML and CSS. We gained practical insights into responsive design, layout structuring, and user interface aesthetics. The hands-on implementation of design principles also enhanced our understanding of user-centric web design.

## References

- L&T LMS : <https://learn.Intedutech.com/Landing/MyCourse>
- <https://devdocs.io>
- <https://developer.mozilla.org/en-US/>

