# Front-End UI/UX Mini Project


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

## 2. 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.


## 3. 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

## 4. 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)

**5. 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 |

**6. 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

**7. 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

## 8. Key Features

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

## 9. Challenges Faced & Solutions

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

## 10. 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

## 11. Future Enhancements

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

## 12. Sample Code

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <title>Benjamin Luke Mendes - Portfolio</title>
  <link rel="stylesheet" href="styles.css" />
</head>
<body>
  <header>
    <h1>Benjamin Luke Mendes</h1>
    <nav>
      <a href="#about">About</a>
      <a href="#career">Objective</a>
      <a href="#skills">Skills</a>
      <a href="#projects">Projects</a>
      <a href="#achieve">Achievements</a>
      <a href="#contact">Contact</a>
    </nav>
  </header>

  <main>
    <section id="about">
      <h2>Personal Information</h2>
      <ul>
        <li>Course: BTech in Computer Science & Engineering (Specialization: Artificial Intelligence & Machine Learning)</li>
        <li>University: Christ University, Bangalore</li>
        <li>Year: 2nd Year (2025)</li>
      </ul>
```

```html
    </section>

    <section id="career">
      <h2>Career Objective</h2>
      <p>
        Aspiring AI/ML engineer passionate about leveraging technology to solve real-world problems. Seeking opportunities to deepen practical skills in artificial
      </p>
    </section>

    <section id="skills">
      <h2>Technical Skills</h2>
      <ul>
        <li>Programming Languages</li>
        <div class="skill-icons">
  <div class="skill-item">
    <img src="images/Python.png" alt="Python" />
    <span>Python</span>
  </div>
  <div class="skill-item">
    <img src="images/c++.png" alt="C++" />
    <span>C++</span>
  </div>
  <div class="skill-item">
    <img src="images/java.png" alt="Java" />
    <span>Java</span>
  </div>
  <div class="skill-item">
    <img src="images/HTML.png" alt="HTML" />
    <span>HTML</span>
```

```
    </div>
    <div class="skill-item">
      <img src="images/CSS.png" alt="CSS" />
      <span>CSS</span>
    </div>
    <div class="skill-item">
      <img src="images/javascript.png" alt="JavaScript" />
      <span>JavaScript</span>
    </div>
  </div>

        <li>AI/ML Technologies: scikit-learn, TensorFlow, Keras, PyTorch</li>
        <li>Web Development: HTML, CSS, JavaScript, Flask</li>
        <li>Databases: MySQL, MongoDB</li>
        <li>Tools: Jupyter Notebook, Google Colab, Git, VS Code</li>
        <li>Other Skills: Data Analysis, Data Visualization (Matplotlib, Seaborn), Basic DevOps Concepts</li>
      </ul>
    </section>

    <section id="projects">
      <h2>Projects</h2>
      <ol>
        <li><b>Student Performance Prediction System:</b> Developed a machine learning model using scikit-learn to predict student performance based on academic an
        <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
        <li><b>Personal Portfolio Website:</b> Created a responsive personal portfolio website using HTML, CSS, JavaScript, and Flask to showcase projects and skil
      </ol>
    </section>

    <section id="achieve">
```

```
      <h2>Achievements</h2>
      <h3>Academic Achievements</h3>
      <ul>
        <li>CGPA: 8.6/10 </li>
        <li>Awarded certificate for outstanding performance in Data Structures & Algorithms</li>
        <li>Member, Christ University Tech Club</li>
      </ul>
      <h3>Hackathons & Competitions</h3>
      <ul>
        <li>Participated in Smart India Hackathon 2024 (SIH) – Shortlisted for Final Round</li>
        <li>Secured 2nd place in internal university coding competition</li>
      </ul>
      <h3>Workshops & Internships</h3>
      <ul>
        <li>Attended “AI & ML Bootcamp” organized by Google Developer Student Club, Christ University</li>
        <li>Completed online summer internship: Introduction to AI (Coursera)</li>
      </ul>
    </section>

    <section id="contact">
      <h2>Contact</h2>
      <p>Email: <a href="mailto:benjamin.mendes@example.com">benjamin.mendes@example.com</a></p>
      <p>Phone: +91 98765 43210</p>
      <p>LinkedIn: <a href="https://www.linkedin.com/in/benjaminlukemendes" target="_blank" rel="noopener noreferrer">linkedin.com/in/benjaminlukemendes</a></p>
      <p>GitHub: <a href="https://github.com/benjaminlukemendes" target="_blank" rel="noopener noreferrer">github.com/benjaminlukemendes</a></p>
    </section>
  </main>

  <footer>
    &copy; 2025 Benjamin Luke Mendes Portfolio
  </footer>
</body>
</html>
```

## 13. Screenshots of Final Output

# Benjamin Luke Mendes

About Objective Skills Projects Achievements Contact

## Personal Information

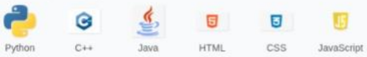
- Course: BTech in Computer Science & Engineering (Specialization: Artificial Intelligence & Machine Learning)
- University: Christ University, Bangalore
- Year: 2nd Year (2025)

## Career Objective

Aspiring AI/ML engineer passionate about leveraging technology to solve real-world problems. Seeking opportunities to deepen practical skills in artificial intelligence, machine learning, and software development.

## Technical Skills

- Programming Languages




- AI/ML Technologies: scikit-learn, TensorFlow, Keras, PyTorch
- Web Development: HTML, CSS, JavaScript, Flask
- Databases: MySQL, MongoDB
- Tools: Jupyter Notebook, Google Colab, Git, VS Code
- Other Skills: Data Analysis, Data Visualization (Matplotlib, Seaborn), Basic DevOps Concepts

## Projects

# Benjamin Luke Mendes

About Objective Skills Projects Achievements Contact

## Projects

1. **Student Performance Prediction System:** Developed a machine learning model using scikit-learn to predict student performance based on academic and demographic data.
2. **Fake News Detection:** Built and trained a natural language processing classifier with Python (NLP) to detect fake news articles using logistic regression and support vector machines.
3. **Personal Portfolio Website:** Created a responsive personal portfolio website using HTML, CSS, JavaScript, and Flask to showcase projects and skills.

## Achievements

### Academic Achievements

- CGPA: 8.6/10
- Awarded certificate for outstanding performance in Data Structures & Algorithms
- Member, Christ University Tech Club

### Hackathons & Competitions

- Participated in Smart India Hackathon 2024 (SIH) – Shortlisted for Final Round
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### Workshops & Internships

- Attended "AI & ML Bootcamp" organized by Google Developer Student Club, Christ University
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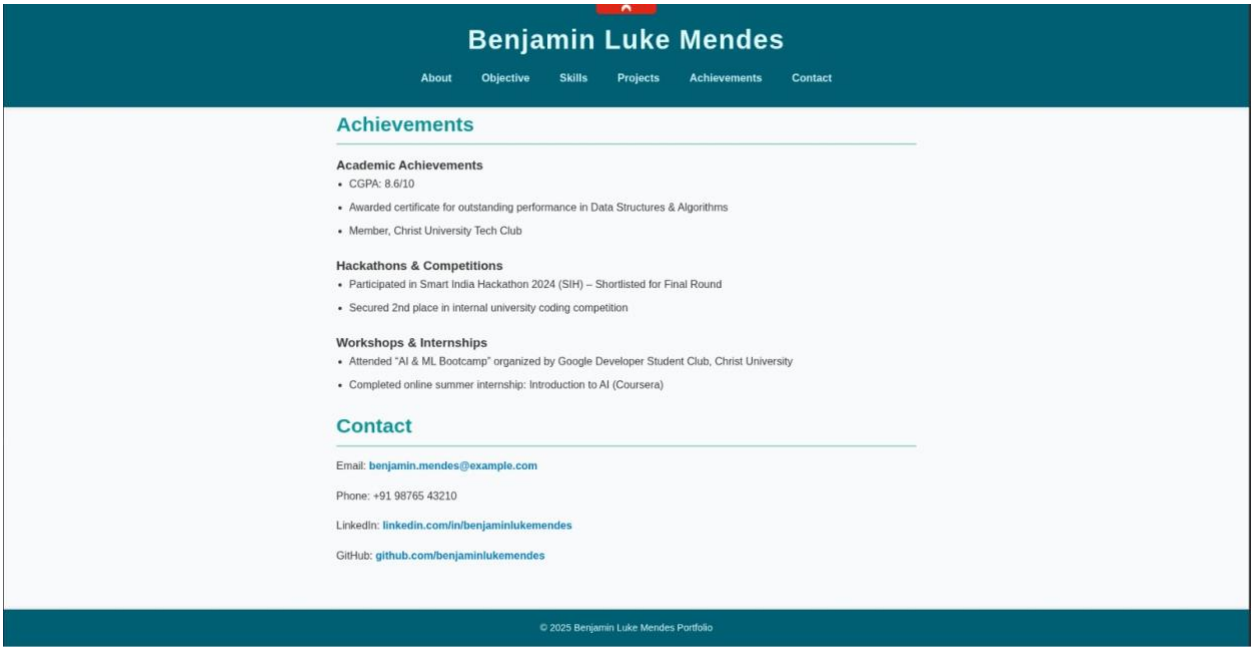
## Contact




## 11. Conclusion

This is a personal portfolio website 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.

## 12. References


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