

Front-End UI/UX Project

Project Title:
Responsive Portfolio Website

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Course: UI/UX Design Fundamentals

Instructor Name: Dr. Narendra Prasad

Institution: Christ University

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2. Abstract

The Personal Portfolio Website is a dynamic, interactive web project built solely with HTML5, CSS3 and JavaScript. It effectively highlights a user's profile, skills, projects, and contact information in a well-organized and easy-to-navigate format. The design incorporates semantic HTML tags, CSS Flexbox/Grid layouts, media queries, jQuery and Bootstrap to ensure responsiveness. The objective was to establish a professional personal brand website with the use of JavaScript and external libraries.

3. Objectives

- Design user-friendly interfaces using modern UI principles.
- Develop fully responsive layouts using HTML, CSS, JavaScript, Bootstrap, jQuery.
- Implement structured HTML5 semantic elements.
- Apply CSS styling for branding, layout, and responsive behavior.
- Use JavaScript to implement interactivity.
- Ensure accessibility and readability across devices.

4. Scope of the Project

- Entirely focused on front-end design.
- Designed for desktop, tablet, and mobile viewports.
- Only open-source tools and HTML/CSS/JavaScript (jQuery, Bootstrap).

Tools & Technologies Used

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

6. HTML Structure Overview

- Used semantic tags: <header>, <nav>, <main>, <section>, <article>, <footer>.
- Pages include Home, About Me, Projects, Contact, Education.

- Navigation menus use with anchor links for smooth scrolling.

7. CSS Styling Strategy

- Used external CSS files (styles.css).
- Organized with comments and sections for easy maintenance.
- Techniques used:
 - o Flexbox and Grid for layout
 - o Media Queries for responsiveness
 - o CSS variables for theme customization
 - o Hover effects and transitions
 - o Mobile-first design approach

8. Key Features

| Feature | Description |
|----------------------------|--|
| Responsive Design | Adapts seamlessly to all screen sizes |
| Smooth Navigation | Fixed top navigation with anchor links |
| Project Cards | Flex/Grid layouts with hover effects |
| Contact Form (functional) | Placeholder inputs and button layout |
| Accessible Fonts & Colours | 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 | Switched to Flexbox and Grid |
| Typography scaling issues | Used relative units (em/rem) instead of px |

10. Outcome

- Achieved clean, consistent, and visually engaging front-end.
- All components function as intended using HTML,CSS and JavaScript.
- Gained hands-on experience with layout responsiveness, and UI hierarchy.

11. Future Enhancements

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

12. Sample Code

<main> Code for Portfolio Page:

```
<main>

<!-- Hero -->
<section id="home" class="hero section">
  <div class="hero-inner container">
    <div class="hero-text">
      <h1 class="heading">Jewin Jinson</h1>
      <p class="lead">
```

Computer Science Engineering student passionate about
AI, Machine Learning, and building innovative

```

        solutions through code and design.
    </p>
    <div class="cta">
        <a href="#about" class="btn primary-btn">About Me</a>
        <a href="#" class="btn secondary-btn">Resume</a>
    </div>
</div>

<div class="hero-card">
    <div class="profile-ring">
        
    </div>
</div>
</div>
</section>

<!-- About -->
<section id="about" class="about-section">
    <div class="container">
        <h2 class="section-title">About Me</h2>
        <p class="section-subtitle">
            I'm a Computer Science Engineering student with a passion
for artificial intelligence and machine
            learning. My journey combines theoretical knowledge with
hands-on experience in building intelligent systems.
        </p>

        <div class="about-grid">
            <!-- Left column -->
            <div class="about-text">

```

My Journey

Currently pursuing my Computer Science Engineering degree with a specialization in AI and ML and Honours in Quantum Computing.

I've been fascinated by the potential of artificial intelligence to solve real-world problems and improve

people's lives. My goal is to leverage my skills and knowledge to create innovative solutions that make a

positive impact on society.

Apart from academics I've also participated in various extracurricular activities, including quizzing,

debates, anchoring.

When I'm not coding, you can find me photographing nature, exploring new hiking trails, or experimenting

with landscape photography.

AI & Machine Learning

Curious to learn about how intelligent systems work and create solutions which incorporate these

systems.

```

        <h4>Software Engineering</h4>
        <p>Full-stack development, algorithms, data
structures, and system design.</p>
    </div>
    <div class="about-card">
        <h4>Problem Solving</h4>
        <p>Competitive programming, optimization, and
innovative solution development.</p>
    </div>
</div>
</div>
</div>
</div>
</section>

<!-- Education -->
<section id="education" class="education-section">
    <div class="container">
        <h2 class="section-title">Education & Achievements</h2>
        <p class="section-subtitle">
            My academic journey and accomplishments that have shaped
my expertise in Computer Science and Artificial
            Intelligence.
        </p>

        <!-- Academic Background -->
        <h3 class="subheading">Academic Background</h3>
        <div class="edu-card">
            <div class="edu-header">
                <h4>Bachelor of Technology in Computer Science
Engineering</h4>
                <span class="edu-dates">2024 - 2028</span>

```

</div>

<p class="edu-sub">Specialization in Artificial Intelligence & Machine Learning</p>

<p class="edu-school">Christ (Deemed to be University), Bangalore</p>

<div class="edu-tags">

Machine Learning

Deep Learning

Computer Vision

Natural Language Processing

Data Structures & Algorithms

Database Management Systems

Operating Systems

Computer Networks

</div>

<div class="edu-extra">

GPA: 3.95 / 4

Currently Pursuing

</div>

</div>

<div class="edu-card">

<div class="edu-header">

<h4>Higher Secondary Certificate (12th Grade)</h4>

2022 - 2024

</div>

<p class="edu-sub">Science (PCM + Computer Science)</p>

<p class="edu-school">CMI Public School, Chalakudy</p>

<div class="edu-extra">

Percentage: 96.4%


```

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

<!-- Projects -->
<section class="projects_skills">
    <div id="projects" class="projects-section">
        <div class="container">
            <h2 class="section-title">Projects</h2>

            <div class="projects-grid">

                <!-- Project 1 -->
                <article class="project-card">
                    

                    <div class="project-content">
                        <h3 class="project-title">Portfolio Page</h3>
                        <p class="project-description">
                            A responsive and accessible portfolio website
built with HTML, CSS & JavaScript to
                            showcase my skills, projects, and journey as a
developer.
                        </p>
                        <div class="project-tags">
                            <span>HTML</span>
                            <span>CSS</span>
                            <span>JavaScript</span>
                        </div>

```

```

        <div class="project-links">
            <a href="#" class="btn small-btn primary-btn
project-btn">Code</a>
            <a href="#" class="btn small-btn primary-btn
project-btn">Demo</a>
        </div>
    </div>
</article>
<!-- <div id="myModal" class="modal">
    <div class="modal-content">
        <h2>Portfolio Website</h2>
        <span class="close-btn">&times;</span>
        <p>A responsive and accessible portfolio website
built with HTML & CSS to showcase my skills,
        projects, and journey as a developer.</p>
    </div>
</div> -->

<!-- Project 2 -->
<article class="project-card">
    
    <div class="project-content">
        <h3 class="project-title">Restaurant Management
System</h3>
        <p class="project-description">
            A simple Python-based application to manage
restaurant operations,
            including handling customer orders, maintaining
menu items, and storing records.
            It streamlines basic restaurant tasks by
providing functionality for order

```

processing and file-based data storage.

</p>

<div class="project-tags">

Python

File Handling

Multiple libraries

</div>

<div class="project-links">

Code

Demo

</div>

</div>

</article>

</div>

</div>

</div>

<!-- Skills -->

<div id="skills" class="skills-section">

<div class="container">

<h2 class="section-title">Skills</h2>

<div class="skills-grid">

<!-- Languages -->

<div class="skills-card">

<h3>Languages</h3>


```
        <li><i class="las la-code"></i> HTML / CSS</li>
        <li><i class="lab la-python"></i> Python</li>
        <li><i class="lab la-java"></i> Java</li>
        <li><i class="lab la-node-js"></i> Node.js</li>
    </ul>
</div>

<!-- Tools -->
<div class="skills-card">
    <h3>Tools</h3>
    <ul>
        <li><i class="lab la-git-alt"></i> Git</li>
        <li><i class="las la-terminal"></i> CLI</li>
    </ul>
</div>

<!-- Technologies -->
<div class="skills-card">
    <h3>Technologies</h3>
    <ul>
        <li><i class="las la-database"></i> MySQL</li>
        <li><i class="las la-cloud"></i> Cloud Basics</li>
    </ul>
</div>
</div>
</div>
</section>

<!-- Contact -->
```

```
<section id="contact" class="contact">
  <div class="container">
    <!-- Section Header -->
    <div class="section-header">
      <h2>Get In Touch</h2>
      <p>
        I'm always interested in discussing new opportunities,
collaborations, or just
        chatting about technology and AI. Feel free to reach
out!
      </p>
    </div>

    <!-- Main Content Grid -->
    <div class="contact-grid">

      <!-- Left Column: Contact Info -->
      <div class="contact-info">
        <h3>Let's Connect</h3>
        <p class="connect-text">
          Whether you're looking for a collaborator on an
exciting AI project, need help with
          machine learning implementations, or want to discuss
the latest developments in
          computer science, I'd love to hear from you.
        </p>

        <div class="info-items">

          <!-- Email -->
          <div class="info-item">
```

```
        <div class="icon-container">
            <svg xmlns="http://www.w3.org/2000/svg"
class="icon" fill="none" viewBox="0 0 24 24"
                stroke="currentColor" stroke-width="2">
                <path stroke-linecap="round" stroke-
linejoin="round"
                    d="M3 8l7.89 5.26a2 2 0 02.22 0L21 8M5
19h14a2 2 0 02-2V7a2 2 0 00-2-2H5a2 2 0 00-2 2v10a2 2 0 02 2z" />
                </svg>
            </div>
            <div>
                <h4>Email</h4>
                <p>jewinjinson43@gmail.com</p>
            </div>
        </div>
```

```
<!-- Phone -->
<div class="info-item">
    <div class="icon-container">
        <svg xmlns="http://www.w3.org/2000/svg"
class="icon" fill="none" viewBox="0 0 24 24"
            stroke="currentColor" stroke-width="2">
            <path stroke-linecap="round" stroke-
linejoin="round"
                d="M3 5a2 2 0 012-2h3.28a1 1 0
01.948.684l1.498 4.493a1 1 0 01-.502 1.21l-2.257 1.13a11.042 11.042
0 005.516 5.516l1.13-2.257a1 1 0 011.21-.502l4.493 1.498a1 1 0
01.684.949V19a2 2 0 01-2 2h-1C9.716 21 3 14.284 3 6V5z" />
            </svg>
        </div>
        <div>
            <h4>Phone</h4>
            <p>+91 8089893342</p>
```

```

        </div>
    </div>

    <!-- Location -->
    <div class="info-item">
        <div class="icon-container">
            <svg xmlns="http://www.w3.org/2000/svg"
class="icon" fill="none" viewBox="0 0 24 24"
                stroke="currentColor" stroke-width="2">
                <path stroke-linecap="round" stroke-
linejoin="round"
                    d="M17.657 16.657L13.414 20.9a1.998 1.998 0
01-2.827 0l-4.244-4.243a8 8 0 1111.314 0z" />
                <path stroke-linecap="round" stroke-
linejoin="round" d="M15 11a3 3 0 11-6 0 3 3 0 016 0z" />
            </svg>
        </div>
        <div>
            <h4>Location</h4>
            <p>Bangalore, India</p>
        </div>
    </div>

    <!-- LinkedIn -->
    <div class="info-item">
        <div class="icon-container">
            <svg xmlns="http://www.w3.org/2000/svg"
class="icon" viewBox="0 0 24 24" fill="currentColor">
                <path
                    d="M19 0h-14c-2.761 0-5 2.239-5 5v14c0 2.761
2.239 5 5 5h14c2.762 0 5-2.239 5-5v-14c0-2.761-2.238-5-5-5zm-11
19h-3v-11h3v11zm-1.5-12.268c-.966 0-1.75-.79-1.75-1.764s.784-1.764
1.75-1.764 1.75.79 1.75 1.764-.783 1.764-1.75 1.764zm13.5 12.268h-

```

```
3v-5.604c0-3.368-4-3.113-4 0v5.604h-3v-11h3v1.765c1.396-2.586 7-
2.777 7 2.476v6.759z" />
```

```
</svg>
```

```
</div>
```

```
<div>
```

```
<h4>LinkedIn</h4>
```

```
<p>linkedin.com/in/jewin-jinson</p>
```

```
</div>
```

```
</div>
```

```
<!-- GitHub -->
```

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

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

```
<svg xmlns="http://www.w3.org/2000/svg"
class="icon" viewBox="0 0 24 24" fill="currentColor">
```

```
<path
```

```
d="M12 0c-6.626 0-12 5.373-12 12 0 5.302
3.438 9.8 8.207 11.387.599.111.793-.261.793-.577v-2.234c-3.338.726-
4.033-1.416-4.033-1.416-.546-1.387-1.333-1.756-1.333-1.756-1.089-
.745.083-.729.083-.729 1.205.084 1.839 1.237 1.839 1.237 1.07 1.834
2.807 1.304 3.492.997.107-.775.418-1.305.762-1.604-2.665-.305-
5.467-1.334-5.467-5.931 0-1.311.469-2.381 1.236-3.221-.124-.303-
.535-1.524.117-3.176 0 0 1.008-.322 3.301 1.23.957-.266 1.983-.399
3.003-.404 1.02.005 2.047.138 3.006.404 2.291-1.552 3.297-1.23
3.297-1.23.653 1.653.242 2.874.118 3.176.77.84 1.235 1.911 1.235
3.221 0 4.609-2.807 5.624-5.479 5.921.43.372.823 1.102.823
2.222v3.293c0 .319.192.694.801.576 4.765-1.589 8.199-6.086 8.199-
11.386 0-6.627-5.373-12-12-12z" />
```

```
</svg>
```

```
</div>
```

```
<div>
```

```
<h4>GitHub</h4>
```

```
<p>https://github.com/jewinjk007</p>
```

```
</div>
```

```
</div>
```



```
</div>
```

```
</div>
```

```
<!-- Right Column -->
```

```
<div class="contact-form-container">
```

```
<h3>Send a Message</h3>
```

```
<p class="form-intro">
```

```
    Send a message below and I'll get back to you as soon  
as possible.
```

```
</p>
```

```
<form id="contactForm"  
action="https://formsfree.io/f/mjkakdbq" method="POST">
```

```
<div class="form-row">
```

```
<div class="form-group">
```

```
<label for="first-name">First Name</label>
```

```
<input type="text" name="first-name" id="first-  
name" placeholder="Jewin">
```

```
</div>
```

```
<div class="form-group">
```

```
<label for="last-name">Last Name</label>
```

```
<input type="text" name="last-name" id="last-  
name" placeholder="Jinson">
```

```
</div>
```

```
</div>
```

```
<div class="form-group">
```

```
<label for="email">Email</label>
```

```
<input type="email" name="email" id="email"  
placeholder="abc@example.com">
```

```
</div>
```

```
<div class="form-group">
```

```
<label for="subject">Subject</label>
```

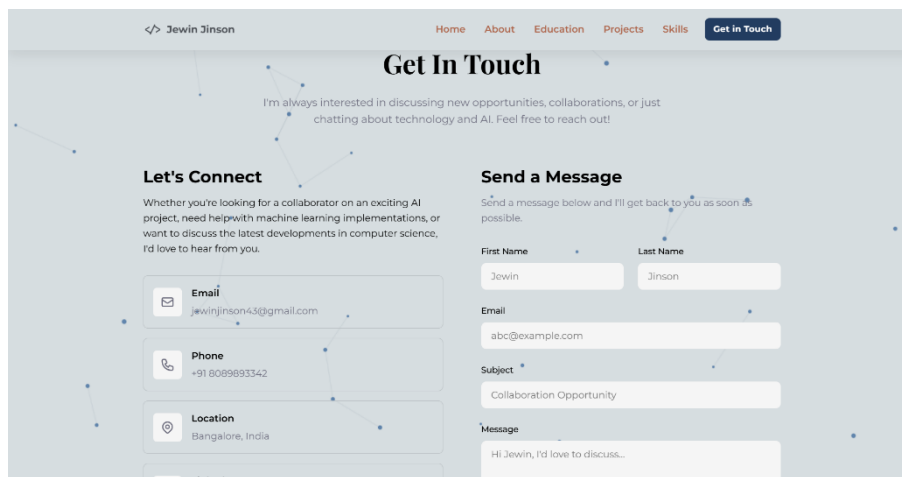
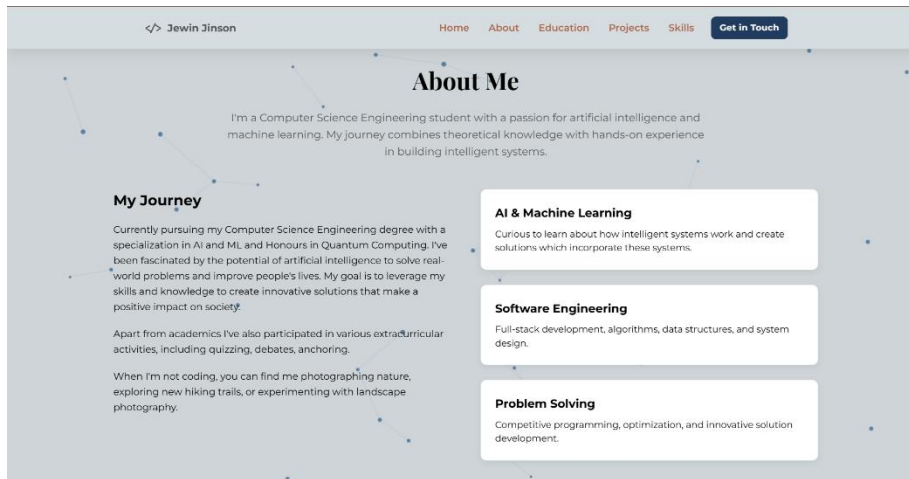
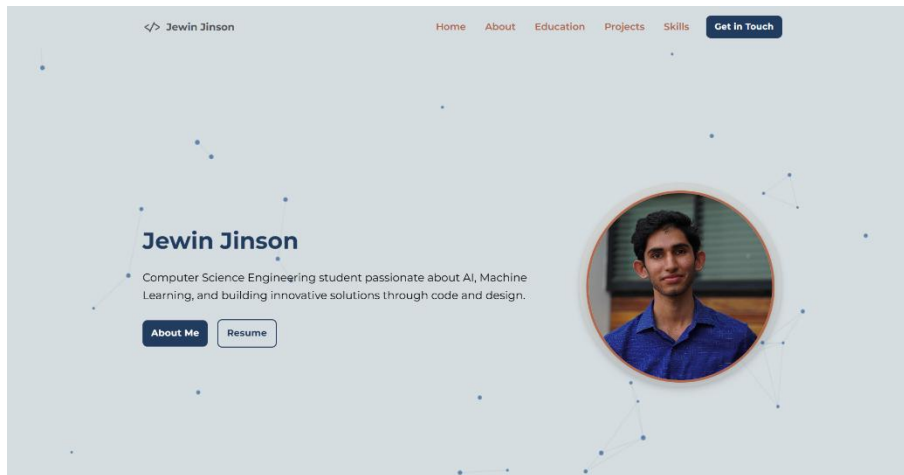
```

        <input type="text" name="subject" id="subject"
placeholder="Collaboration Opportunity">
    </div>
    <div class="form-group">
        <label for="message">Message</label>
        <textarea name="message" id="message" rows="5"
placeholder="Hi Jewin, I'd love to
discuss..."></textarea>
    </div>
    <div>
        <button type="submit" class="submit-btn">
            <svg xmlns="http://www.w3.org/2000/svg"
class="btn-icon" viewBox="0 0 24 24" fill="currentColor">
                <path
                    d="M9.999 16.2L9.8 19.6c.4 0 .6-.2.9-.4l2.2-
2.1 4.6 3.4c.8.4 1.4.2 1.6-.7l3-14c.3-1.1-.4-1.6-1.2-1.3L2.8 9.7c-1
.4-1 1 .1 1.3l5.6 1.7 10.2-6.4c.5-.3.9 0 .5.3l-9.2 9.6z" />
            </svg>
            Send Message
        </button>
    </div>
</form>
<p id="form-status"></p>
</div>
</div>
</div>
</section>
</main>

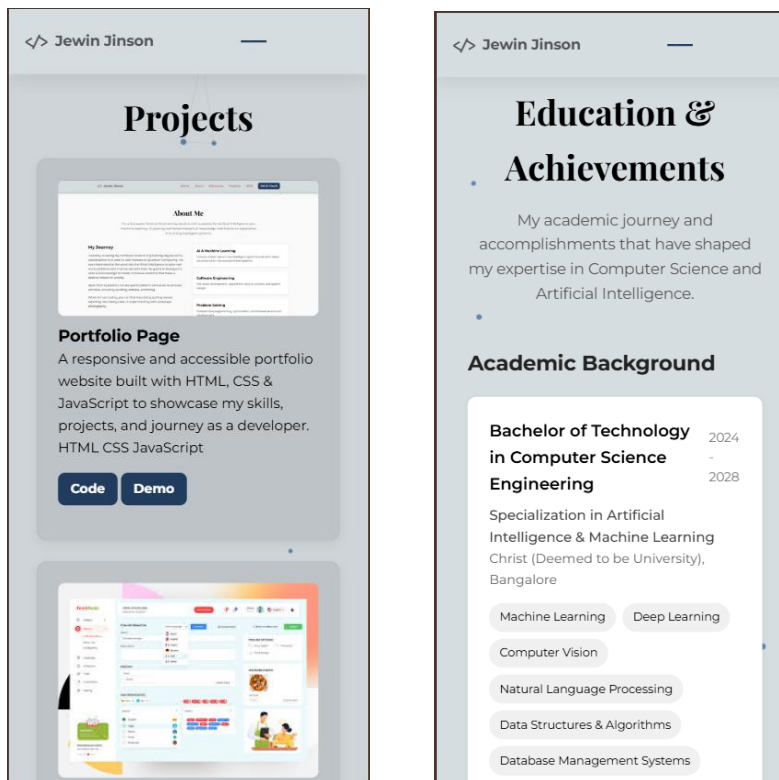
```

13. Screenshots of Final Output

1. Desktop View



2. Mobile View



14. Conclusion

This mini project strengthened our front-end development skills using HTML, CSS and JavaScript and also enhanced our understanding of UI/UX principles. We practiced creating responsive designs, maintaining layout consistency, implementing functionalities and interactivities and applying design principles to real-world use cases. Both projects enhanced our understanding of semantic HTML, CSS layout systems, JavaScript Functionality and user-centric web design.

15. References

- L&T LMS: <https://learn.lntedutech.com/Landing/MyCourse>