Explanation

HTML Code :

1. **Header and Navigation:**
   - The header includes a logo and a navigation menu with links to different sections: Home, About, Skills, Certifications, Projects, and Contact.
   - There is a theme switcher to toggle between light and dark modes.
2. **Home Section:**
   - A welcome message introducing Poorna Chandra Tejashwi as a Full Stack developer.
   - A profile image and links to LinkedIn, GitHub, Instagram, and Facebook.
   - A button to download the resume.
3. **About Section:**
   - A brief introduction about Poorna Chandra Tejashwi's background in B.Tech and passion for technology and innovation.
   - Additional details about personal interests and open invitations for networking and collaboration.
4. **Skills Section:**
   - Lists various technical skills with proficiency percentages: HTML (95%), CSS (80%), Tailwind CSS (85%), JavaScript (70%), Java (85%), DSA (75%), ReactJS (60%).
5. **Certifications Section:**
   - Details of certifications in Data Structures & Algorithms, HTML & CSS, and Java, including course content and practical applications.
   - Links to view the certificates.
6. **Projects Section:**
   - Descriptions and links to various projects: Image Resizer Application, News Application, ChatBot, Todo App, Parallax Website, Laser Security System.

CSS Code :

Here is a summary of the key styles defined:

1. **Font Styles:**
   - Sets a global font family for the body (`Arial, sans-serif`) and for headings (`Georgia, serif`).
2. **Image Styles:**
   - Adds a transform effect on hover to scale images slightly.
3. **Navigation Bar Styles:**

- Defines the appearance of the navigation bar, including background color, padding, alignment, and box shadow.
- Includes styles for light and dark modes, and transitions for smooth color changes.
- Styles for the logo, navigation links, and hover effects.

4. **Switch Styles:**
    - Styles for a toggle switch used for theme switching, including dimensions, background color, and transition effects.
5. **Section Styles:**
    - Home, About, Skills, Certifications, Projects, and Contact sections each have padding, background color, and layout-specific styles.
    - Applies different background colors to distinguish each section visually.
6. **Progress Bar Styles:**
    - Defines the appearance of progress bars used in the Skills section, with background color and rounded corners.
7. **Form Styles:**
    - Styles for form elements in the Contact section, including input fields, text areas, and buttons with hover effects.
8. **Footer Styles:**
    - Defines the appearance of the footer, with a dark background and white text.
9. **Utility Classes:**
    - Various utility classes for layout adjustments, such as grid gaps and padding.

Tailwind Css :

```
@tailwind base;
@tailwind components;
@tailwind utilities;
```

This are directives used in a CSS file to integrate Tailwind CSS into a project. Here's an explanation of each directive:

1. **@tailwind base;**
    - This directive includes the base styles from Tailwind CSS. These base styles provide a set of default styles for HTML elements, ensuring a consistent starting point. They include things like resetting margins, padding, font sizes, and other basic properties to provide a clean slate for further styling.

2. **@tailwind components;**
    - This directive includes the component styles from Tailwind CSS. These are pre-designed classes that you can use to quickly build UI components. They cover a wide range of use cases, such as buttons, forms, cards, and other common UI elements. This helps in building consistent and reusable components across your project.

3. **@tailwind utilities;**

    - This directive includes the utility classes from Tailwind CSS. These utility classes are the core of Tailwind CSS, providing a wide range of single-purpose classes that can be composed to build custom designs directly in your HTML. Utilities cover everything from layout and spacing to typography and colors, enabling rapid and flexible styling.

Together, these directives allow you to leverage Tailwind CSS's powerful utility-first approach to build and style your website efficiently. By including these directives, your CSS file will have access to the comprehensive set of styles and utilities provided by Tailwind CSS, facilitating a streamlined and consistent design process.

Tailwind.config.js

```
module.exports = {
  content: [
    "./src/**/*.{html,js}",
    "./index.html"
  ],
  darkMode: 'class', // Enable dark mode
  theme: {
    extend: {},
  },
  plugins: [],
}
```

1. **content:**

    - This array specifies the paths to all HTML and JavaScript files in the project where Tailwind CSS classes might be used. Tailwind CSS scans these files to generate the necessary styles.
    - In this case, it includes all HTML and JS files in the `./src` directory and the `index.html` file in the root directory.

2. **darkMode: 'class':**

    - This enables dark mode in the project. By setting it to `'class'`, it configures Tailwind CSS to use a CSS class (usually `dark`) to toggle dark mode styles. This approach allows for more control over when dark mode is applied, as you can dynamically add or remove the `dark` class to the HTML element or any parent element to switch between light and dark modes.

3. **theme:**

    - This section allows you to extend the default theme provided by Tailwind CSS. The `extend` object is currently empty, indicating no custom extensions or overrides are being applied to the default theme. However, you can add custom colors, spacing, fonts, and more here to tailor the design to your specific needs.

4. **plugins:**
    - This array is used to add any additional Tailwind CSS plugins that you might need. Plugins can provide extra functionality or custom components that aren't included in the default Tailwind CSS package. Currently, the array is empty, indicating no additional plugins are being used.

Thank you!!!