# **Design Choices in the Portfolio Website**

## 1. Typography:

- **Choice of Fonts:** Usage of the 'Poppins' font family gives a modern, clean look, aligning well with a portfolio theme.
- Font Sizes and Weights: Adequate variation in font sizes (e.g., headings vs. body text) ensures readability and aesthetic hierarchy.

### 2. Color Scheme:

- Primary Colors: Black and green (#1f242d and #7cf03d) provide a high-contrast, visually striking palette.
- Day/Night Mode: Adding the toggle feature for light and dark themes enhances usability and user preference.

## 3. Navigation:

- Sticky Navbar: Fixed navigation ensures easy access to different sections, improving user experience.
- **Active State Indicators:** Highlights the current section (e.g., .nav-links a.active) for better navigation awareness.

### 4. Animations:

 Subtle animations (e.g., the moveUpDown effect on the profile image) provide dynamism without overwhelming the user.

## 5. Section Layouts:

- Landing Page: Balanced layout with text and image creates a strong first impression.
- About Section: Flexbox ensures a responsive and visually pleasing structure.

### 6. Skills Section:

- Visual representation of proficiency levels (e.g., progress bars) is intuitive and attractive.
- Use of hover effects adds interactivity.

### 7. Projects and Certifications:

- Overlay effects in the project section are engaging.
- Including certificates with links ensures transparency and validation.

### 8. Contact Form:

- A simple, functional form allows users to connect easily.
- o Placeholder text offers guidance, ensuring better usability.

# **Challenges Faced in Development**

### 1. Responsiveness:

- Challenge: Ensuring the layout is responsive across all devices, including mobile and tablets.
- Solution: Use of flexbox and media queries helps adapt the layout effectively.

## 2. Dark/Light Mode Toggle:

- Challenge: Synchronizing CSS changes dynamically based on user interaction.
- Solution: Use JavaScript to toggle classes or inline styles.

# 3. **Performance Optimization:**

- o Challenge: Images and animations can slow down page load times.
- Solution: Optimize images for web using tools like TinyPNG and implement lazy loading.

## 4. Cross-Browser Compatibility:

- o Challenge: Styles and features may render differently in various browsers.
- Solution: Use browser-specific prefixes or fallback styles (e.g., -webkit-).

## 5. Content Organization:

- Challenge: Maintaining a clean and structured design without overwhelming the user.
- Solution: Use whitespace effectively and implement consistent spacing.

## 6. SEO and Accessibility:

- Challenge: Making the website discoverable and usable for all users, including those with disabilities.
- Solution:
  - Use semantic HTML tags.
  - Add alt attributes to images.
  - Implement ARIA roles where needed.

## 7. Dynamic Interactivity:

- Challenge: Adding interactivity (e.g., dropdown menus or animations) without compromising functionality.
- Solution: Use lightweight JavaScript or libraries like jQuery for seamless integration.