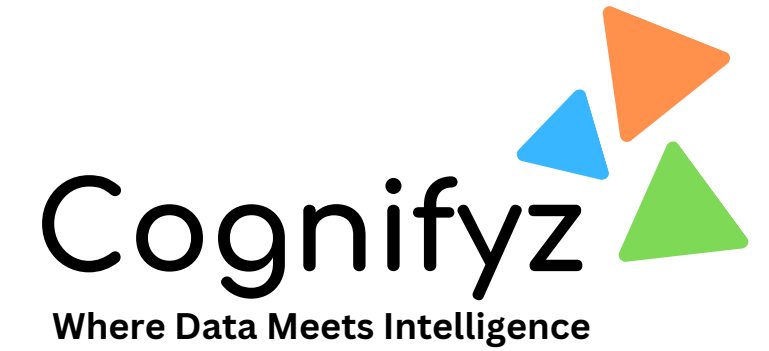# Cognifyz

**Where Data Meets Intelligence**

# INTERNSHIP PROGRAM
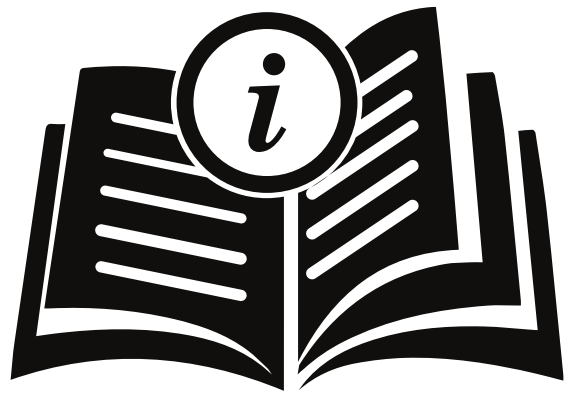
## FRONT-END DEVELOPMENT.

# About Us

- Cognifyz Technologies is a leading technology company that specializes in the dynamic field of data science and excels in delivering impactful projects and solutions.

- The company offers a wide range of products and services, including artificial intelligence (AI), machine learning (ML), and data analytics tools.

- Cognifyz Technologies also provides training programs to enhance skills and knowledge in these areas.

- The company focuses on delivering innovative and cutting-edge solutions to meet the evolving needs of businesses.

**Cognifyz**
Where Data Meets Intelligence

**MSME**
Micro, Small, & Mediam Enterprises
सूक्ष्म, लघु, एवं मध्यम उद्योग
**MSME BUSINESS FORUM**

- Enhance your professional presence by updating your LinkedIn profile. Share your achievements, such as the offer letter or internship completion certificate, which you received from us. Don't forget to mention and tag Cognifyz Technologies in your posts. You can use hashtags like #cognifyz #cognifyzTech #cognifyzTechnologies to showcase your affiliation.

- Maintain academic integrity and respect intellectual property. Plagiarism and copying code are serious offenses that can lead to the termination of your internship and subsequent restriction from future opportunities with us.

- Demonstrate your work by sharing a video showcasing the completion of your tasks on LinkedIn. Remember to tag Cognifyz Technologies in your post and use relevant hashtags like #cognifyz #cognifyzTech #cognifyzTechnologies to engage with our community.

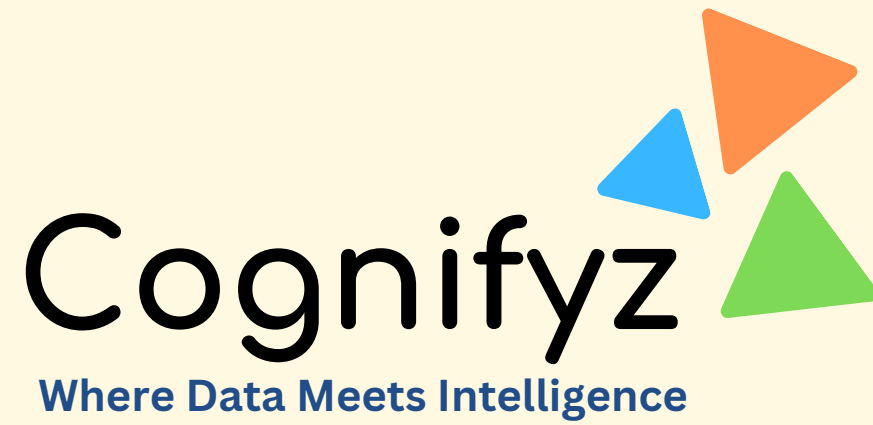**Cognifyz**

Where Data Meets Intelligence

# SUBMISSION

- Create a professional video showcasing your internship projects and achievements.

- Host the video on LinkedIn to provide proof of your work and establish credibility among your peers. Consider tagging Cognifyz Technologies in your posts to ensure they are notified of your work.

- A SUBMISSION FORM will be shared later. Till then please continue your task and make a septate file of each level.

- When posting the video on LinkedIn, include the following hashtags to maximize visibility and engagement: #cognifyztechnologies #cognifyz #cognifyztech. Additionally, depending on your internship domain.

RULES

1
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3
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5

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# Cognifyz
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## FRONT-END DEVELOPMENT.

# TASK LIST

Welcome to our exciting front-end development. internship program! To complete this internship, you will need to finish at least 6 tasks out of 8. We've designed these tasks to cater to your convenience and ensure an engaging and rewarding experience.

# Level 1: Beginner

Project: Interactive Website Development

Objective:

**To build a responsive and interactive website that incorporates various front-end development techniques, from basic HTML structure to advanced API integration and CSS preprocessing.**

**Task 1: Basic HTML PageSteps:**

1. Create an HTML file (index.html) with the basic structure including <html>, <head>, and <body> tags.
2. Add a title to the webpage using the <title> tag.
3. Insert headings, paragraphs, and an image within the body of the page.
4. Save the file and open it in a web browser to ensure proper rendering.

# Level 1: Beginner

**Task 2: Styling with Inline CSS:**

**Objective: Apply basic styling directly within HTML elements to understand the fundamentals of CSS and its impact on the appearance of web content.**

**Steps:**

1. Apply inline CSS styles directly within HTML elements to change font color, size, and background color.
2. Experiment with different styles and save the HTML file to view the changes in the browser.

# Level 2: Intermediate

**Task 3: Responsive Design**

**Objective: Ensure the webpage layout adjusts appropriately for different screen sizes, improving user experience across various devices.**

**Steps:**

1. Use media queries in a separate CSS file (styles.css) to make the webpage responsive.
2. Adjust layout and element sizes for different screen sizes, ensuring readability and usability.
3. Test responsiveness by resizing the browser window or using developer tools.

# Level 2: Intermediate

**Task 4: Interactive Button**

**Objective: Enhance user engagement by adding interactive elements and implementing basic JavaScript functionality.**

**Steps:**
1. Add a button element to index.html.
2. Write JavaScript code in a <script> tag or a separate file (script.js) to change the background color when the button is clicked.
3. Test the functionality by clicking the button and observing the background color change.

# Level 3: Advanced

**Task 5: Task: API Integration**

**Objective: Integrate external data sources to provide dynamic content, expanding the website's capabilities beyond static information.**

**Steps:**

1. Choose a public API (e.g., JSONPlaceholder) and understand its endpoints.
2. Use fetch() in script.js to retrieve data from the API.
3. Parse the JSON data and dynamically update the DOM to display the fetched information.

# Level 3: Advanced

**Task 6: Form Styling and Validation**

**Objective: Improve usability and data integrity by designing visually appealing forms and implementing client-side validation for user input.**

**Steps:**

1. Design a form in index.html with appropriate input fields and labels.
2. Style the form using CSS in styles.css.
3. Implement client-side form validation in script.js to validate user input before submission.
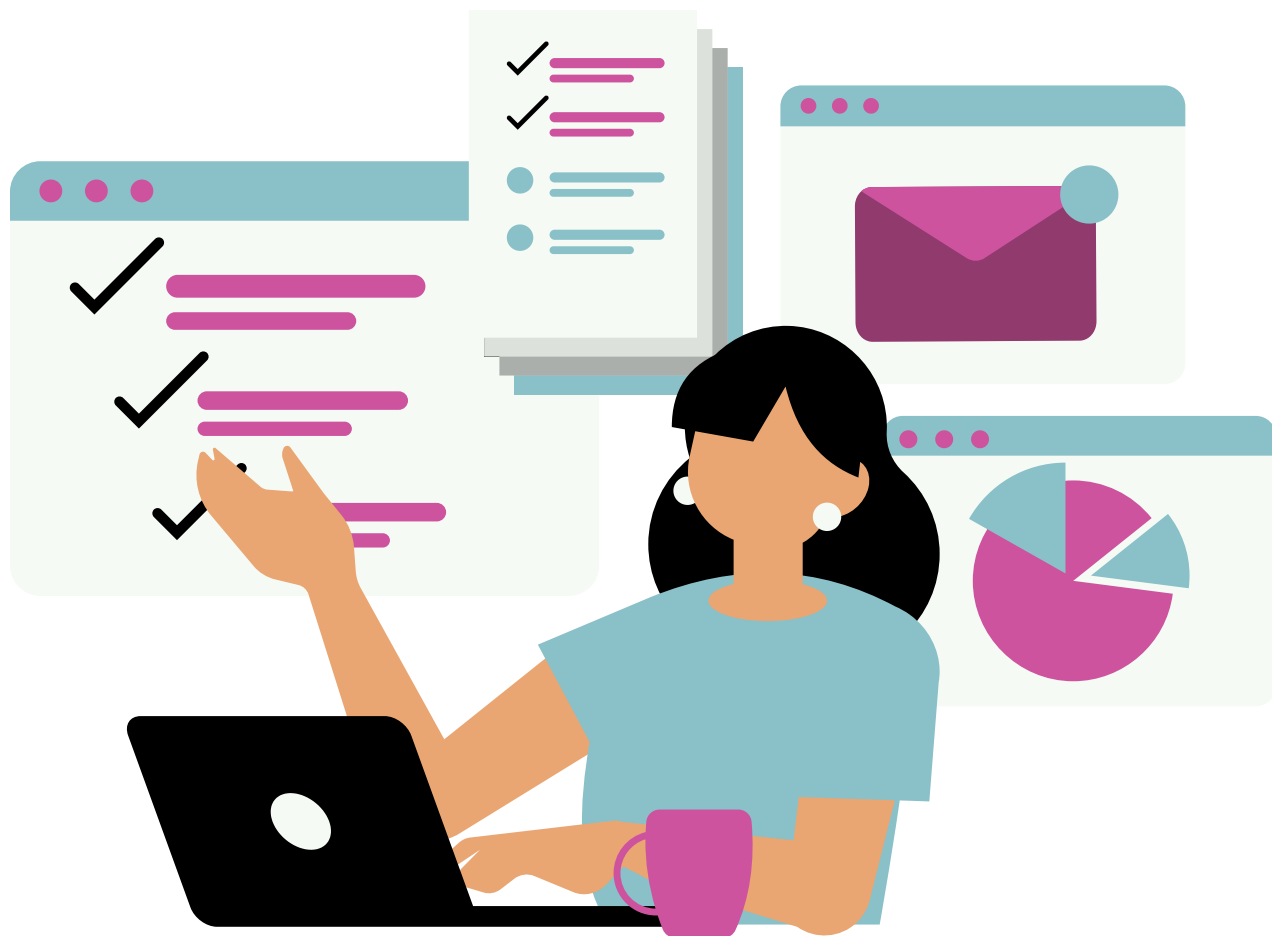4. Provide feedback to the user about validation errors.

# Level 4: Expert

**Task7: Component-Based Styling**

**Objective: Utilize CSS frameworks to streamline development and maintain consistency across the website, demonstrating proficiency in modular design principles.**

**Steps:**

1. Refactor the webpage to use Bootstrap or another CSS framework.
2. Utilize framework components for the layout, navigation, and other elements.
3. Customize and style the components as needed to match the design requirements.

# Level 4: Expert



**Task8: Introduction to CSS Preprocessing**

**Objective: Explore advanced CSS preprocessing techniques to enhance code organization, reusability, and maintainability, showcasing expertise in modern front-end development practices.**

**Steps:**

1. Install a CSS preprocessor like Sass and set up your project.
2. Define variables for colors, font sizes, etc., in a separate Sass file (styles.scss).
3. Use nested styles and other preprocessing features to organize and enhance the stylesheet.
4. Compile the Sass file into CSS and link it to index.html.

# How to Contact Us?

To find out more information, please contact us

**in**   @cognifyz-Technologies

✉   cognifyztechnologies@gmail.com

🌐   www.cognifyz.com

📷   @cognifyz_tech

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