

WEB DEVELOPMENT

**W
B**

Course Id No.:
WBINBAUG23

Remember :-

- The task portal of IoT will expire after 28 days time duration.
- Avoid Last Minute submissions.
- Submit all micro-assessment tasks & Final Major Project to receive Internship Completion Certificate.

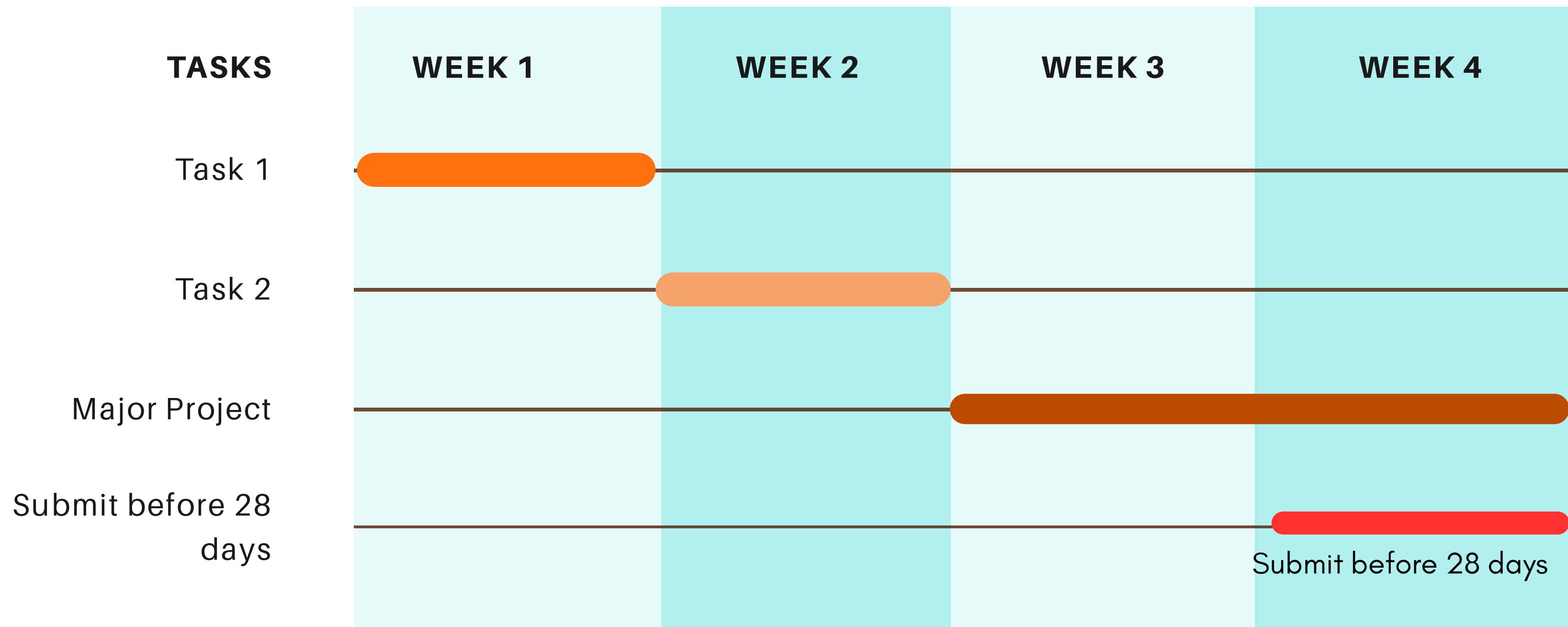
CODE OF ETHICS

- Plagiarism is a serious violation that will not be tolerated. To avoid being accused of plagiarism, it is important to always engage in original research and present your own ideas and insights.
- If iNeuBytes suspects that you have plagiarized or used any AI tools for writeup, your mentor will terminate your work immediately.

Condition: plagiarism should be less than 15% (i.e., 85% of writeup work should be unique)

- Copying more than 60% code from online is also considered as severe offence.

TIMEPLAN



Remember: Complete all the tasks i.e., task 1 and 2 and major project and submit all the your work in the last week.

MICRO-ASSESSMENT TASKS (WEEK - 1 & 2)

Task 1: Single Scroll based Landing Page on any Digital Marketing with Newsletter Sign-Up

Requirements:

- Product/Service Portfolio with sections for:
 - Product/Service bio, Benefits, Customer Testimonials, Contact information
- Newsletter Sign-Up integrated into the portfolio.
- Website must be responsive and attractive.

Phases:

Design and Planning

- Identify what information to include in the portfolio.
- Create a rough sketch or wireframe of the website.

Develop Basic Structure (HTML)

- Write HTML for the Scrolling Landing page, divided into relevant sections (Product/Service bio, Benefits, Customer Testimonials, Contact information).
- Use semantic HTML elements for structure and better readability.

Cont.

MICRO-ASSESSMENT TASKS (WEEK - 1 & 2)



Newsletter Sign-Up Integration

- In the Newsletter Sign-Up section, add a form with two input fields (for name and email) and a submit button.
- Add labels for accessibility.
- Implement form validation to ensure valid input.

Styling (CSS)

- Style the page, starting with the overall layout, then focusing on typography, color scheme, etc.
- Ensure the website is responsive and functional on different device sizes.

Finalization

- Add final touches to the CSS styling for a polished look.
- Validate and test the website on various devices and browsers.

MICRO-ASSESSMENT TASKS (WEEK - 1 & 2)

ANSWER THE QUESTIONS (Task-1)

- Why is it important to include semantic HTML elements in your code?
- How did you ensure the website was responsive?
- What considerations did you take into account when designing your website layout?
- Why is form validation important in a newsletter sign-up?
- How did you organize your CSS to make it easily maintainable and scalable?
- Can you explain your process of wireframing or sketching the website before coding?
- What were some of the challenges you faced while working on this project and how did you overcome them?
- How would you enhance this project if you had more time or more advanced skills (like JavaScript or a backend language)?
- What strategies did you use to ensure that your website is accessible to all users, including those who may rely on assistive technologies?
- How would you connect your newsletter sign-up form to a back-end or third-party service to actually collect email addresses?

Cont.

MICRO-ASSESSMENT TASKS (WEEK - 1 & 2)



Final Output for Task-1:

At the end of this process, you will:

- Have a responsive product Digital Marketing Scrolling Landing page that includes a newsletter sign-up form. The Landing Page will showcase about your Product/Service bio, Benefits, Customer Testimonials, Contact information. The newsletter sign-up form will validate user input and allow visitors to submit their name and email address.
- Upload all your code to a GitHub repository , so it's ready for review and future reference.
- Prepare a task development report that explains how you tackled each part of the task, challenges faced, and how you resolved them.
- Include screenshots and a GIF-based video showing the responsiveness of your website across different devices and screen sizes.
- Answer the task-related questions in a document to reflect on your learning and the decisions you made during the project development.

MICRO-ASSESSMENT TASKS (WEEK - 1 & 2)



Task 2 : Image Search Engine

Requirements:

- Image search engine that allows users to search for high-resolution images by keyword.
- Display of the images along with optional metadata such as the photographer's name, and license details.
- The app should have an attractive and responsive design.

Phases:

Design and Planning

- Identify the key functionalities of your app.
- Create a rough sketch or wireframe of how the app should look and behave.

Cont.

MICRO-ASSESSMENT TASKS (WEEK - 1 & 2)



Develop Basic Structure (HTML)

- Write HTML for the app, defining areas for image display and search input.
- Use semantic HTML elements to structure your content for readability.

Styling (CSS)

- Style your app, starting with the overall layout, then focusing on typography, color scheme, etc.
- Ensure the app is responsive and functional on different device sizes.

Implement Functionality (JavaScript)

- Use JavaScript to add interactivity to your app.
- Connect to the Unsplash API to fetch and display images based on user input.

MICRO-ASSESSMENT TASKS (WEEK - 1 & 2)



ANSWER THE QUESTIONS (Task-2)

- What is an API, and how is it used in this project?
- How did you handle user input to fetch the corresponding images?
- How did you manage API errors or handle situations when the entered search query is invalid?
- How did you use JavaScript to manipulate the DOM and update the image information on the page?
- Why is it important to make your web app responsive?
- How did you ensure that your app works properly across different browsers?
- How did you secure your API key, especially when the code is shared or made public?
- How can you extend the functionality of this image search app? What features would you add in a version 2.0?
- What are the limitations of the Unsplash API, and how did they affect your project?
- What was your strategy for designing the user interface of the app? How did you decide what information to display and how to display it?

Cont.

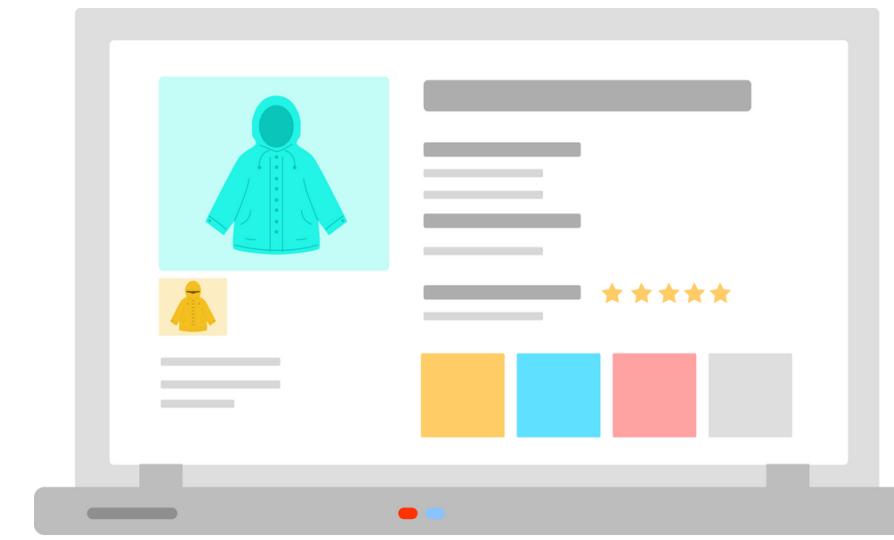
MICRO-ASSESSMENT TASKS (WEEK - 1 & 2)

Final Output for Task-2:

At the end of this process, you will:

- Have a responsive image search engine web application. The user will be able to input a keyword, and in response, the app will display the images from that category. The images will be fetched from the Unsplash API using JavaScript. The app will be styled with CSS and will have a user-friendly design.
- Push your project to a GitHub repository for sharing, reviewing, and future reference.
- Write a task development report detailing your approach to each step, challenges encountered, and how you overcame them.
- Create screenshots and a GIF-based video demonstrating the app's responsiveness on different devices and screen sizes.
- Compile your responses to the task-related questions in a document, showcasing your understanding of the project and the lessons learned.

MAJOR INTERNSHIP PROJECT (WEEK - 3 & 4)



This



OR

That



Diving into the final phase of the virtual internship, we present two enticing project options for our two-week major undertaking. You may choose to build a fully functional e-commerce website harnessing HTML, CSS, JavaScript, PHP, and MySQL, or test your mettle with the intricate task of cloning a website "Myntra". Follow your interests, select your challenge, and do create something amazing. Your choice, your project. So, let's get coding!

MAJOR INTERNSHIP PROJECT (WEEK - 3 & 4)



Title : Develop CRUD application oriented project on E-Commerce

Objective:

The objective of creating a fully functional e-commerce website using HTML, CSS, JavaScript, PHP, and MySQL is to provide interns with a comprehensive, hands-on learning experience. This project not only strengthens the grasp of key web development technologies but also familiarizes you with full-stack development processes. You'll learn to implement real-world functionalities found in e-commerce sites, enhance problem-solving abilities, and gain practical exposure beyond academic learning. The completed project will be a valuable addition to your portfolio, reflecting their technical competence and readiness for professional opportunities. Moreover, this experience fosters teamwork, time management skills, and a foundational understanding of e-commerce systems, all of which are vital for a successful career in web development.

Cont.

MAJOR INTERNSHIP PROJECT (WEEK - 3 & 4)



Understand the Requirements:

- User registration and authentication.
- Product listing – Read data from MySQL database. Choose any area of products such as apparels, books, Electronics, Home Appliances, Furniture, and Health and Beauty. Remember to provide a detailed description and images for each product to make it more appealing and informative for the user.
- Shopping cart functionality – Add/Remove items (Create/Update/Delete in MySQL database).
- Checkout and order summary – Update in MySQL database.
- Responsive and user-friendly design.

MAJOR INTERNSHIP PROJECT (WEEK - 3 & 4)



STAGES OF TASKS TO BE DONE FOR THIS MAJOR PROJECT

Design and Planning

- Identify the functionalities & create a wireframe of the layout.

Develop Basic Structure (HTML) & Styling (CSS)

- Create HTML structure for the website. Break it down into sections like the homepage, product page, cart page, and checkout page.
- Style these pages using CSS, keeping the design user-friendly and responsive for different device sizes.

Adding Functionality (JavaScript)

- Implement dynamic elements on the website, such as a sliding image gallery or interactive dropdown menus, using JavaScript.

MAJOR INTERNSHIP PROJECT (WEEK - 3 & 4)



Backend Functionality (PHP & MySQL)

- Set up your MySQL database. Create tables for users, products, and orders.
- Using PHP, implement user registration and authentication. Store registered users in your MySQL database.
- Fetch product data from database & display it on the product page.
- Implement the add to cart functionality. When a user adds a product to the cart, it should reflect in your database.
- Implement the checkout function. Upon checkout, the user's order should be recorded in your database and the shopping cart should be cleared.

MAJOR INTERNSHIP PROJECT (WEEK - 3 & 4)



Final Output:

At the end of the project, you will have a fully functional, responsive e-commerce website. The website will allow users to register, view products, add them to a cart, and finally place an order. All data will be appropriately stored and managed using MySQL, with PHP acting as the server-side language.

- Pushing your project to a GitHub repository for review.
- Writing a report detailing your approach, challenges encountered, and how you resolved them.
- Providing screenshots and a GIF-based video demonstrating the website's responsiveness and functionalities.

MAJOR INTERNSHIP PROJECT (WEEK - 3 & 4)



Title : Clone the Myntra website

Objective:

As a pivotal part of this two-week internship, the objective of creating a Myntra clone is to empower you with a practical understanding of web development technologies such as HTML, CSS, and JavaScript. You will recreate the user interface and key features of this globally recognized movie streaming platform, aiming for a web application that is not only visually compelling but also functionally robust. By undertaking this project, you will hone your skills in responsive design, enhance your problem-solving capabilities, and gain valuable insights into the construction of a real-world web application. This immersive hands-on experience is designed to elevate your coding skills, giving you an edge in your burgeoning web development career.

MAJOR INTERNSHIP PROJECT (WEEK - 3 & 4)

Understand the Requirements:

- HTML, CSS, and JavaScript: Basic to intermediate knowledge of these technologies is a must. You should be comfortable creating layouts in HTML, styling them with CSS, and adding functionality with JavaScript.
- Responsive Design: Your Myntra clone should be responsive, i.e., it should adapt to different screen sizes (desktop, tablet, mobile).
- Web APIs (Optional): If you want to add more functionality like fetching products with the search of names, consider learning about web APIs. However, this is optional and can be bypassed by simply using dummy data.

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MAJOR INTERNSHIP PROJECT (WEEK - 3 & 4)

STAGES OF TASKS TO BE DONE FOR THIS MAJOR PROJECT

Layout Design:

Create the layout of the Myntra app. This includes the navigation bar, the main view , and the music control bar at the bottom.

Styling:

Use CSS to style your app. Myntra has a unique color theme and specific layouts for its various views. Try to replicate this as closely as possible.

Functionality:

Use JavaScript to add functionality. Check the next slide and choose any one option and add.

(MANDATORY)

Responsiveness:

Make sure your app is responsive. Use CSS media queries to adjust the layout based on the screen size.

MAJOR INTERNSHIP PROJECT (WEEK - 3 & 4)



Testing and Debugging:

Continuously test your app for any bugs or issues. Make sure all functionalities work as intended.

Final Output:

At the end of this project, you will have a functional Myntra clone that can show products with categories. The app will replicate the look of Myntra and will be responsive. Although it may not have all the features, it will cover some of the main ones, and more importantly, it will demonstrate your ability to build a complex web application using HTML, CSS, and JavaScript.

- Pushing your project to a GitHub repository for review.
- Writing a report detailing your approach, challenges encountered, and how you resolved them.
- Providing screenshots and a GIF-based video demonstrating the website's responsiveness and functionalities.

Cont.

MAJOR INTERNSHIP PROJECT (WEEK - 3 & 4)



- If you are performing to create clone based website, write the lines in ReadMe file
I understand that the clone-based project created by me is intended solely for educational purposes.

Note: It is crucial to respect copyright laws and regulations by refraining from using the cloned site for any commercial purposes. If you choose to utilize it related to commercial activities, it's important to note that iNeuBytes does not hold any responsibility for such actions.

Cont.

SUBMISSION

In website internship portal below resources, you will find task submission; where the step 1 was "task process"

P1

Task process

After submitting, inform about your submission through email. Then You'll receive Mentor Remarks in 24-48 Hours, If the remarks were not upto the mark, redo the required changes and submit again. If the remarks are good, you can proceed to P2

Submit google doc public Link



if its rejected, you should resubmit by understanding mentor's feedback



if approved, proceed to P2

P2

Task to Share



Finally, Submit LinkedIn Post Link and after verification, you can download iNeubbytes Virtual Internship certificate

After submitting, inform about your submission through email.

In website internship portal below resources, you will find task submission; where the step 2 was "task to submit".

Cont.

SUBMISSION

P1

In website internship portal below resources, you will find task submission; where the step 1 was "task process"

P2

In website internship portal below resources, you will find task submission; where the step 2 was "task to share"



CODE SUBMISSION FOR P1

- Submit the tasks and Major Project on [Github](#)[Name_RegNo._Monthyear].

DOCUMENT SUBMISSION FOR P1

- Prepare a [word document](#) with proper explanation of content and screenshots of the outputs performed for the tasks and major project in the virtual internship program.

LINKEDIN POST SUBMISSION FOR P2

- After also, Prepare an [effective audio or video presentation](#) with outline key-points of the tasks and explain major project performed in the virtual internship & post in [LinkedIn](#) with **#iNeuBytes**.

For more details related to task submission and deadlines, watch the complete video available in the portal under join our community.

Github : <https://github.com/>

Word Document: <https://docs.google.com/document/u/0/>

Presentation : <https://docs.google.com/presentation/u/0/>

LinkedIn: <https://www.linkedin.com/feed/>

Cont.

SUBMISSION



Don't Forget:

- Ensure by providing the Name, Registration Number, Month and Year along with GitHub Link in the first page of word document and Presentation.

These crucial details should never be omitted.

For more details related to task submission and deadlines, watch the complete video available in the portal under join our community.

Cont.

SUBMISSION



As valued interns of the iNeuBytes Virtual Internship Program, it is crucial for you to maintain clear and comprehensive documentation throughout your journey. This involves utilizing Google Docs as the primary platform for documenting your work, progress, and insights related to the tasks and major project. By doing so, you ensure that important details are captured and organized effectively.

The performed code should be organize and share, we strongly recommend creating GitHub repositories that follow the repository naming convention [firstname_registrationno.]. This will help maintain consistency and ease of access to your codebase. Within the repository, it is essential to include a README file that provides a comprehensive overview of the project. This README should contain details such as the project's purpose, the dataset used, techniques implemented, and a specific mention that the repository was created for the iNeuBytes Virtual Internship Program [Month_Year]. You can leverage platforms like <https://readme.so/> to create professional and informative README files, which can then be uploaded to your GitHub repository. When it comes time to submit your final work, please remember to share the public links of your Google Docs documentation and GitHub repository in the designated iNeuBytes Task submission portal. By adhering to these guidelines, you can ensure that your work is well-documented, easily accessible, and effectively shared with the evaluation team. Your dedication to thorough documentation and organized code will greatly contribute to the overall success and impact of your internship experience.

SUBMISSION



Why is it necessary to prepare a presentation in audio format (compulsory) and video format (Optional), and share it as a LinkedIn post?

Preparing a presentation in audio format (compulsory) and optionally in video format, and sharing it as a LinkedIn post is an essential requirement for the iNeuBytes Internship Program. This requirement is in place to encourage you, as interns, to showcase your talent and the skills you have developed throughout the one-month internship. By creating and sharing your presentation, you have the opportunity to demonstrate your capabilities to a wider audience and leverage your professional network. It allows you to highlight the work you have performed, providing valuable insights and inspiring other students who are interested in the field. Moreover, your presentation will reflect your dedication and hard work during the internship, making us, as a company, proud to see the appreciation and recognition you receive. We understand that preparing the presentation may require some effort, but we believe that dedicating 30 minutes of your time to showcase your accomplishments is a worthwhile investment.

You can start by introducing yourself, mentioning your name and iNeuBytes registration number. Then, focus on delivering a concise presentation of 5-10 minutes, highlighting the significant tasks and projects you have undertaken during the internship. Remember, this presentation is an excellent opportunity to demonstrate your skills, share your experiences, and contribute to the broader community. We encourage you to make the most of this platform and present your work with enthusiasm and confidence.

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Always remember, we are here to support your entire virtual internship journey with round-the-clock assistance, webinars, and soft skills sessions.

However, it ultimately comes down to you, "always you", to put in the effort and work hard. Whether success or failure, it doesn't matter. The key is to keep trying, and trying again with unwavering determination. So, embrace the challenges, give it your all, and let perseverance be your guiding force.

-iNeuBytes

