*Task-2 Report:*

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**Task Title:** Responsive Landing Page (Development of a Responsive University Website with Video Background and Informative Sections). (Task-2)

**Task Description:**

The task involved creating a responsive university website using HTML and CSS. The website features a video background in the header section, informative content about the university, a features section showcasing the highest placement rates, and a contact form for inquiries. The design ensures responsiveness across various devices, including desktops, tablets, and mobile phones.

**Steps Taken:**

1. **HTML Structure:** Structured the HTML content to include sections for the header, about, features, and contact. Incorporated necessary tags and classes for styling.
2. **Video Background:** Integrated a video background in the header section using the **<video>** element with attributes for autoplay, mute, and looping.
3. **Styling with CSS:** Applied CSS to style the content, ensuring a clean and modern design. Used media queries to make the website responsive.
4. **Feature Grid:** Created a feature grid to display embedded YouTube videos, ensuring they are responsive and fit well within the layout.
5. **Responsive Design:** Used CSS flexbox and media queries to adapt the layout for different screen sizes, ensuring a consistent user experience across devices.

**Challenges Faced:**

* **Video Background Scaling:** Ensuring the video background scales correctly without distorting the aspect ratio was challenging.
* **Responsive Grid Layout:** Making the feature grid responsive while maintaining a balanced layout on different screen sizes required careful use of media queries.
* **Text Readability:** Ensuring text overlay on the video background remains readable required adding a semi-transparent overlay.

**Solutions Implemented:**

* **Scaling Video Background:** Used CSS properties such as **min-width**, **min-height**, and **transform: translate (-50%, -50%);** to keep the video centred and properly scaled.
* **Responsive Grid Layout:** Applied flex properties with specific breakpoints to adjust the number of columns based on screen size, ensuring videos are stacked vertically on smaller screens.
* **Text Overlay:** Added a semi-transparent background to the text container to enhance readability against the video background.

**Learnings:**

* **Video Background Integration:** Gained experience in integrating and styling video backgrounds in web design.
* **Responsive Design Techniques:** Improved skills in creating responsive layouts using CSS flexbox and media queries.
* **Overlay Techniques:** Learned effective techniques for ensuring text readability over background images or videos.

**Project Update:**

The project development for Aditya University's website is progressing well. We have successfully implemented responsive design principles to ensure optimal viewing across various devices. Key updates include: Incorporated a video background showcasing university life, creating an engaging visual experience. Added a transparent overlay to improve text readability over the video background. Structured the content to provide comprehensive information about the university's educational offerings, aligning with NEP 2020 guidelines. Included images to showcase the campus environment, infrastructure, and facilities. Highlighted the university's key selling points, emphasizing high placement rates and top-tier training. Designed a user-friendly contact form, allowing visitors to reach out with ease. Applied media queries to adapt the layout and styling for various screen sizes, enhancing user experience on mobile devices and tablets. Adjusted font sizes and image dimensions to maintain readability and visual appeal across different viewports.

**Submission Link along with Deadline:**