Sneha Singh

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SUMMARY:

Motivated and Enthusiastic graduate with technical knowledge and a strong desire to learn and grow in a professional environment. To work in an environment which encourages me to succeed and grow professionally where I can utilize my skills and knowledge appropriately.

TECHNICAL SKILLS:

Programming Language : HTML, CSS, C, Python (Basics)

Tools : VS code

EDUCATION:

Shree L R Tiwari College of Engineering, Mumbai, Maharashtra

Bachelor of Engineering, Electronics & Telecommunication

INTERNSHIPS:

AI Recognition System & Multimodal, Cross modal Learning

Shree L R Tiwari College of Engineering, Mumbai, Maharashtra   **12** Dec 2024 – **20** DEC 2024

- Developed and trained an AI recognition system using multimodal and cross-modal learning techniques to improve accuracy in visual understanding tasks.
- Explored multimodal learning by combining image and textual features for better representation learning.

PROJECTS:

4 Bit ALU (Arithmetic Logic Unit):

- Designed and implemented a 4-bit ALU using Verilog to perform fundamental arithmetic and logic operations such as addition, subtraction, AND, OR, XOR, NOT, increment, and decrement.
- Utilized behavioral and structural modeling in Verilog to simulate ALU operations and verify correctness using testbenches

Radio Controller using STM32 Microcontroller

- Designed and implemented a radio controller system using STM32 microcontroller (ARM Cortex-M) for wireless communication control.
- Developed a transmitter-receiver pair, where the controller could remotely manage functions such as motion direction, speed, or device toggling.

Timer-Based Decorative LED Lighting Circuit

- Designed and implemented a decorative LED lighting system using microcontroller timers to produce time-controlled lighting effects.
- Utilized hardware timers and interrupts to manage multiple LED patterns without blocking CPU execution.
- Programmed dynamic LED sequences (e.g., fading, blinking, running patterns) using PWM signals and timer delay logic**.**

IoT-Controlled RGB Diwali Lights using Node-RED

- Developed an IoT-enabled RGB lighting system controllable via Node-RED dashboard, enabling real-time color and pattern changes through a web interface.
- Utilized Node-RED for designing user flows and IoT dashboards, enabling seamless interaction from smartphones or browsers.

ADD-ON COURSES:

Multimodal and Cross Modal Learning

- Completed an intensive course focused on integrating multiple data modalities (e.g., text, image, audio) for effective machine learning applications.
- Gained hands-on experience with multimodal data fusion, feature alignment, and cross-modal retrieval.
- Learned the application of deep learning models for tasks involving vision-language, audio-visual and text-image interactions.

CERTIFICATIONS:

- High Performance Computing Workshop Organized by CSI-SLRTCE.
- Click, Code, Create: Beginner's Guide to Web Development by IBM
- AI Recognition System & Multimodal, Cross modal Learning by SLRTCE