

## GREEPITHA REDDY YEDLA

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### PROFILE SUMMARY

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A recent graduate with expertise in Python programming, experienced in designing, developing, and optimizing embedded software and cloud edge applications. Strong background in web development using Flask and Django, data analysis with Pandas and NumPy, and automation tools like Selenium. Familiar with version control using Git. Passionate about collaborating on innovative projects, solving real-world problems, and driving performance optimization in embedded systems and utility programs.

### EDUCATION

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#### **B. Tech in Electronics and Communication Engineering**

Malla Reddy Engineering College, Hyderabad | 2020 - 2024

CGPA: 7.4/10

### PROJECTS

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#### **Driver Sleep Detection and Alarming System**

- Developed a real-time embedded system to detect driver drowsiness using facial landmark detection, eye tracking, and head pose estimation.
- Implemented image processing algorithms in Python for real-time video processing and sensor data fusion.
- Integrated the system with Raspberry Pi for edge computing, ensuring efficient performance in varying driving conditions.
- Collaborated on testing and optimization, improving system reliability and enhancing driver safety through real-time alerts.

#### **Novel Vedic Mathematics-Based ALU Using Specific Reversibility**

- Designed an Arithmetic Logic Unit (ALU) using reversible and semi-reversible gates, leveraging Vedic mathematics for optimization.
- Applied Urdhva Triyakambakam Sutra for faster multiplication and reduced computational steps, optimizing power efficiency, speed, and area.
- ALU performs five arithmetic and eight logical operations, enhancing performance while minimizing power dissipation and circuit complexity.

### TECHNICAL SKILLS

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- **Programming Languages:** C, Python, HTML, CSS
- **Frameworks:** Flask, Django
- **Database:** MySQL
- **Tools:** Selenium, Git

## **SOFT SKILLS**

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- Adaptability
- Time Management
- Problem-Solving
- Communication Skills

## **CERTIFICATIONS**

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- Embedded for Beginners, NIELIT, July 2023
- PDAC Certified Python Developer Associate
- C Programming Language Workshop, Skilltimate, 2021
- Quiz Participant, Akshara Event, MREC, 2022