

BUCHEPALLI SAI DEEPA

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WORK EXPERIENCE

IOT Internship

Smart Home and Industrial Solutions

May 2024 – July 2024

Vijayawada, Andhra Pradesh

- Developed a system that uses computer vision and IoT to detect eye blinks and activate an LED. Leveraged OpenCV and dlib libraries in Python for real-time blink detection, ensuring precise threshold-based activation.
- Integrated serial communication to interface with hardware components, enabling LED control based on blink detection, displaying practical applications of computer vision in assistive technology.

PROJECTS

Safe Home Integrated Smoke and Door Monitoring System through AIoT

- Developed a smart home system integrating AI and IoT for real-time smoke detection and door monitoring.
- Utilized AI algorithms to reduce false alarms and detect unauthorized access or unusual activity.
- Enabled remote monitoring and control via mobile and web apps for instant alerts and automated responses.

Web-Based E-Pharmacy Store

- Developed an E-pharmacy platform for selling prescribed medications online, for secure delivery.
- Analyzed customer perceptions, values, and risks in online pharmacy shopping, addressing healthcare market needs.
- Enabled secure transactions and easy access to healthcare supplies.

CERTIFICATIONS

Python Essentials Certification

Cisco Networking Academy

March 2024

- Completed a comprehensive course covering fundamental programming concepts, data structures, and problem-solving using Python. Developed practical skills in writing and debugging Python code.

Ecommerce Website with HTML CSS Certification

Great Learning Academy

August 2024

- Completed an ecommerce website focusing on UI and responsive design using HTML and CSS.

EDUCATION

Btech in Information Technology -
CGPA:8.26

Lakireddy Bali Reddy College of Engineering

2022 – Ongoing

Intermediate - Percentage: 95.10

Narayana Jnr College

2020 – 2022

SSC - Percentage: 98.7

Ravindra Bharathi School

2020

TECHNICAL SKILLS

HTML

CSS

React.js

Python

SQL

Excel

Data Cleaning

Data Visualization

Exploratory Data Analysis

ACHIEVEMENTS

Winner – Full Stack Mastery Bootcamp

Innostes Pvt Ltd

- Won the Full Stack Mastery Bootcamp competition along with the team, demonstrating strong skills in frontend and backend development, teamwork, and problem-solving.

EXTRA-CURRICULARS

Member, Pravruthi Club

LBRCE

- Contributed to environmental initiatives and sustainability efforts on campus.

NSS Program Participant

- Engaged in a seven-day initiative to raise awareness in a rural village contributing to community development.

INTERESTS

Web Development

Machine Learning