

SURESH PRAGADA

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PROFILE

Passionately dedicated to driving advancements in AI and machine learning, with a profound enthusiasm for research and engineering. Eager to make impactful contributions to cutting-edge systems and research that address global customer challenges.

ACADEMIC PROJECTS

Home Automation using IoT

- **IoT-enabled lighting systems** can adjust brightness and color based on preferences, time of day, or natural light availability.
- The remote control allows users to turn lights on or off, set schedules, and even change lighting scenes from their smartphones.
- It enables **communication** between smart devices and home appliances through a cloud server and monitors the data.
- The IoT is its ability to enable remote monitoring and control. This empowers businesses and individuals to manage devices and processes from virtually anywhere, optimizing operations, reducing costs, and enhancing efficiency.

Innovative Heart Rate Monitoring Technology

Role and Responsibility: Documentation and Data Presentation.

- Our system eliminates the discomfort of attaching electrodes by measuring heart rate directly from the person's face.
- At the core of our innovation lies the Eulerian Video Magnification algorithm. This sophisticated technique takes video input and employs specialized filtering to amplify minute color and motion changes, enabling us to extract vital cardiovascular information.
- Our system incorporates seamless communication between devices. The video input is captured from a camera, processed using **Python** and **OpenCV**, and the heart rate data is conveyed to the user interface for real-time monitoring.

EDUCATION

Godavari Institute of Engineering and Technology || Bachelor of Technology

2019 – 2023

Narayana Jr College || High School

2017 - 2019

INTERNSHIP EXPERIENCE

Internship Cybersecurity and Cryptography || Goldman Sachs

Aug 2022 – Sep 2022

Roles and Responsibilities

- **MD5 Hash Generation:** Undertook the responsibility of generating MD5 hashes as part of security protocols. This involved meticulous attention to detail and adherence to industry best practices in data integrity.
- **Hashcat Software Utilization:** Demonstrated proficiency in utilizing Hashcat software—a pivotal tool in modern cybersecurity. Applied its functionalities to analyze cryptographic hashes, enhancing my understanding of encryption techniques.
- **Technical Problem Solving:** Exhibited strong problem-solving skills by addressing challenges related to MD5 hash generation, hashcat utilization, and password cracking. Adapted to evolving scenarios to arrive at effective solutions.

SKILLS

- Python
- Libraries (Numpy, Pandas)
- Basic Knowledge in Machine Learning
- Exceptional Communication
- Demonstration Ability