

SAI CHARAN REDDY

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Hyderabad

Motivated **Computer Science** student with a strong foundation in **DataScience**. Proficient in object detection and Data analysis. Seeking opportunities to apply academic knowledge in real-world projects and further develop technical skills.

SKILLS

- Python - OOPs Concepts
- Familiarity with Libraries and Frameworks (NumPy, Pandas).
- Database Management, SQL, DBMS
- Machine Learning (NLP Models), Artificial Intelligence
- Teamwork and collaboration
- Ability to take initiative and lead projects or teams

ACHIEVEMENTS & CERTIFICATIONS

- Programming Essentials in Python, Cisco Networking Academy.
- Certified Associate in C Programming Language, C++ Institute.
- Certificate of achievement in Python Basics from HackerRank.

EDUCATION

- Bachelor of Technology (Computer Science & Data Science)
Marri Laxman Reddy Institute of Technology and Management
[2021-2025] - CGPA: 8.0
- Akshara Junior College (2019-2021)- Percentage: 92%
- SPR School Of Excellence (2018) - Percentage: 97%

INTERNSHIP

Data Analytics and Visualization Job Simulation in Accenture.
Completed Project Understanding, Data Cleaning & Modeling Data.

LANGUAGES

- English
- Hindi
- Telugu

PROJECTS

Major Project:

Motorcyclists Helmet Detection using YOLOv8:

Implemented object detection using YOLOv8 on the Ultralytics Platform to detect motorcyclists without helmets, which is 50% faster than the previous model. Learned the basics of Computer Vision and Supervised Machine Learning.

Technologies & Tools Used:

- YOLOv8 via Ultralytics
- Python, OpenCV
- Jupyter Notebooks/Colab for training

Learning Outcome:

- Understood the workflow of a computer vision project.
- Applied supervised machine learning in real-world object detection. Learned model training, tuning, and evaluation in practical settings.

Mini Project:

Pupil Heart: Heart Rate Variability Monitoring Via Pupillary Fluctuations On Mobile Devices

Pupil-Heart offers a non-invasive, affordable way to monitor heart rate variability (HRV) by analyzing pupil size fluctuations using mobile cameras. Unlike traditional HRV tools, it enables easy, contactless tracking through smartphones, making health monitoring more accessible and convenient.

Technologies & Tools Used:

- OpenCV (for eye tracking and pupil detection)
- Python, TensorFlow or PyTorch (for ML models)
- Android/iOS mobile development (optional for deployment)

Learning Outcome:

- Understood how computer vision and biomedical signal processing can be applied in health monitoring.
- Gained experience in pupil detection, signal extraction, and HRV analysis. Explored mobile device capabilities for remote health applications.