

PALTHI SAKETH

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Summary

B.Tech CSE (Data Science) student at CMRIT with a strong academic record and problem-solving skills. Proficient in Python, Java, data structures, algorithms, and machine learning. Experienced in competitive programming and software development. Passionate about AI, data-driven solutions, and optimizing performance.

Education

CMR Institution of Technology, (2022-2026)
Bachelor of Technology in CSE CGPA: 8.4/10 **Coursework:** Data Structures & Algorithms, Operating Systems, Database Management systems, Computer Networks

SriAryabhattaJunior College (2020-2022)
Intermediate 88.7%

Sri Chaitanya Techno School (2020)
SSC GPA:10/10

Experience

ARTIFICIAL INTELLIGENCE-MACHINE LEARNING-Virtual Internship Sep2023–Nov2023

- Designed and developed a smart attendance system using real-time face recognition with OpenCV and Python.
- Utilized Haar Cascade classifiers / Dlib / Deep Learning (CNN) for face detection and recognition.
- Preprocessed and trained the model on captured student images; ensured over 90% accuracy in varied lighting conditions.

Projects

Sign Language Translator [Github](#)

- Achieved 95% accuracy using Computer Vision and Deep Learning to assist hearing-impaired individuals.
- Implemented MediaPipe Hand Tracking (21 keypoints/hand) with <50ms latency.
- Built and trained a 4-layer LSTM model (256 units, Adam optimizer) over 200 epochs for gesture classification.
- Applied data augmentation (flip, rotate, noise) to improve robustness.
- Integrated with OpenCV for real-time video processing at 30 FPS for smooth user experience.

Tech Stack : Python, OpenCV, Mediapipe, TensorFlow, LSTM, NumPy, Pandas, Matplotlib

Smart Attendance System [Github](#)

Built a real-time attendance system using Convolutional Neural Networks (CNN) and OpenCV, achieving over 92% accuracy in face recognition. Collected and augmented face datasets, integrated with MySQL for automated logging, and developed a Tkinter/Flask-based interface for seamless user interaction.

TECHNOLOGIES

Languages: Python, Java

Libraries/Frameworks: NumPy, Pandas

Tools: Jupyter Notebook, Google Colab, Git, OpenCV

ML Concepts: Supervised & Unsupervised Learning, Regression, Classification, Clustering, Model Evaluation (Precision, Recall, F1 Score)

CERTIFICATES

EduSkills AI-ML Certificate [Link](#) Cisco Cyber Security Certificate [Link](#)

ExtraCurricular Activities

- Served as the Management Head of Hindustan Scouts and Guides, leading multiple social campaigns and donation drives, while successfully completing the 1st level certification. [Link](#)

Coding Profiles

[Leetcode](#)

[CodeChef](#)

[CodeForces](#)