

P. Sai Preetham

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Professional Summary :

Aspiring AI and Machine Learning Specialist, currently pursuing Bachelors of Technology with a specialisation in Artificial Intelligence and Machine Learning, Passionate about leveraging AI technologies to solve problems and give real world solutions. Seeking an opportunity to apply my skills and knowledge in a challenging role within a forward-thinking organisation.

Education :

Dayanda Sagar University

Bangalore, IND

Expected June 2026

Bachelor of Computer Science Specializing in Artificial Intelligence and Machine Learning

Project :

- **Face Detection in real time using OpenCV**
 - Implemented advanced image processing techniques to accurately detect and count faces in images and videos.
 - Focused on optimizing efficiency and obtaining precise bounding box coordinates for facial detection.
 - Utilized OpenCV library for robust image and video processing, enabling accurate facial recognition.
 - Leveraged Dlib library for pre-trained facial landmark detection to identify and detect facial structures with precision.
 - Employed NumPy for efficient array processing and data manipulation, improving computational performance.

Events & Participation

Byte Bounty - Capture the Flag (CTF) Competition

Role: Participant

- **Event Overview:**

Participated in a technical cybersecurity competition that involved solving various challenges related to cryptography, reverse engineering, and data analysis.
- **Key Contributions:**
 - Decoded Morse code audio files and converted hexadecimal to text.
 - Applied reverse engineering techniques to analyze assembly code and extract hidden flags.
 - Conducted spectral analysis of audio files to uncover hidden information.
 - Extracted metadata from image files to identify important clues.
 - Solved encryption challenges using Python programming and modular arithmetic.
- **Skills Gained:**
 - Strengthened cryptography knowledge (Morse code, hexadecimal, and hill cipher).
 - Improved reverse engineering and binary analysis skills.
 - Enhanced ability to extract hidden data from multimedia files.
 - Developed proficiency in Python for cryptographic tasks.
 - Increased familiarity with cybersecurity tools (Steganography, Cryptography, Digital Forensics).