



**CHETAN SINGH CHOUHAN**  
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## PROFILE HIGHLIGHTS

- Proficient in programming languages like **C, C++, Python**, and **front-end development**.
- Hands-on experience with **IoT**, **data science** with **ML**, **microcontrollers**, and **3D game development**.
- **Provisional Patent holder for the Intelligent Waste Management System (IWMS)**, integrating robotics and IoT for efficient waste management.

## PROJECTS

- **Project Topic:** Intelligent Waste Management System (Smart-I-Dustbin).

**Organization:** Amity University Rajasthan, Jaipur.

### Brief Description:

- Built an **IoT-driven smart dustbin** that opens automatically on trash deposition and prevents opening when full.
- Integrated **fill level estimation** and real-time alerts via **Telegram, SMS, Gmail, and WhatsApp** for waste management.
- Enabled **live GPS tracking** for location monitoring and optimized disposal logistics.
- Designed for **multi-power support** (AC, DC, and solar) to ensure uninterrupted operation.
- Showcased proficiency in **IoT, system integration, and sustainable design**, earning a **provisional patent**.

## INTERNSHIP EXPERIENCE

- **Organization:** Upflairs Pvt. Ltd. (Virtual Mode)

**Project Title:** Emotion detection Using CNN (Jun 2024–Aug 2024)

### Brief Description:

- Developed an emotion detection system using **CNN Model**.
- Collected, processed data, and trained models using datasets like **FER-2013**.
- Implemented real-time detection with **OpenCV** and optimized model performance.

- **Organization:** CodSoft (Virtual Mode)

**Project Title:** Calculator (May 2024–Jun 2024)

### Brief Description:

- Developed a **GUI-based** Scientific Calculator using **Tkinter**, supporting both basic and scientific functions.
- Implemented dark/light mode toggle and real-time calculation **history tracking** for enhanced usability.
- Integrated **image-based theme** switching and **dynamic keyboard** layout toggling for user-friendly interaction.

## EDUCATIONAL QUALIFICATION

Qualification	University/School	Graduating Year	Percentage/GPA
B. Tech CSE	Amity University Rajasthan, Jaipur	2026	8.02
12 <sup>th</sup>	AgoshDeep international public school	2022	74%
10 <sup>th</sup>	AgoshDeep international public school	2020	78%

## TECHNICAL SKILLS

- C, C++, Python3, HTML5, CSS, Git, IoT, Latex (Basic), Hardware (Microcontrollers), AI/ML.

## SOFT SKILLS

- Time Management, Teamwork, Responsibility, Strategic thinking, Creativity.

## CERTIFICATIONS COURSES/PROFESSIONAL TRAINING COURSES

- Artificial Intelligence & Machine Learning. (Feb 9<sup>th</sup> 2024)
- Linux Essentials Workshop by LinuxWorld. (Sep 8<sup>th</sup> 2024)

## ACHIEVEMENTS

- Secured **first position** in innovation day organized by Amity University Rajsathan. (Nov 25<sup>th</sup> 2024)
- **Vice President** at RAIOT Lab (Robotic Automation and Internet of Things).
- Campus Ambassador Position Given by Acmegrade.

## CO-CURRICULAR ACTIVITIES/PARTICIPATION

- Achieved Division Level Certification in Carrom Competition. (July 10<sup>th</sup> 2018)

## PERRSONAL DETAILS

Parent Name: S/O Mr. Vishnu Singh Chouhan

Date of Birth: 21/07/2003

Permanent Address: 96/ward no,10 Ram Shaya Marg Nagda (Madhya Pradesh)

Other Languages known: German (Beginning proficiency), English (professional proficiency), Hindi (professional proficiency)

## REFERENCES

On demand.