

AASTHA SHARMA

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CAREER OBJECTIVE

As a Computer Science student passionate about programming and software development, I am seeking a position in the IT industry to apply my problem-solving and programming skills to contribute effectively to projects. My goal is to collaborate with innovative teams on impactful solutions that address real-world challenges while growing professionally in a dynamic, growth-oriented environment that fosters continuous learning and career advancement.

EDUCATION QUALIFICATION

- **Bachelor of Engineering – Computer Science and Engineering**

CMR Institute of Technology, AECS Layout, Bangalore

9.18 CGPA, 2026 (Pursuing)

- **Pre-University Course – Science**

NTR PU College, Bangalore

92.5%, 2022

- **10th Grade**

Stepping Stone School, Gumma, Shimla

92.57%, 2020

TECHNICAL SKILLS

Languages: Python, C++, JavaScript

Data Science & Analytics: Data Visualization, Pandas, NumPy, Exploratory Data Analysis (EDA), Jupyter Notebook

Tools & Platforms: Git, GitHub, VS Code, Android Studio, Eclipse, Windows

Database: MySQL

Backend Technologies: Node.js, Express.js, Django

Frontend Technologies: HTML, CSS, JavaScript, React.js, Flutter

PROJECTS

- **ChainKYC – Decentralized KYC Verification System**

Description: An intelligent KYC verification platform focused on PAN card validation and fraud detection using image processing, deep learning, OCR, and verification workflows. The system validates whether an uploaded image is a genuine PAN card, extracts key identity details, verifies PAN number and date of birth against a database, and confirms ownership through OTP-based authentication. Decentralized storage using IPFS is integrated, while blockchain components are kept extensible for future implementation. User inputs and automation are handled via Selenium with a Streamlit-based interface.

Tech Stack: Python, Image Processing, Inception Model (Deep Learning), Tesseract OCR, Selenium, Streamlit, IPFS, Pinata, Twilio (OTP Verification)

- **AI Model to Detect Unusual Activity in Public Places**

Description: An intelligent real-time surveillance and safety-focused platform that leverages deep learning-based computer vision to detect unusual or suspicious activities from live CCTV video streams. The system analyses video frames using a CNN-based YOLOv5 model to identify abnormal human behaviour, weapon presence, fire, and other threats. Upon confirming anomalies across multiple frames, the system triggers instant alerts via a Telegram bot and provides a web-based dashboard for real-time visualization of detections and alert logs.

Tech Stack: Python, OpenCV, YOLOv5, Telegram Bot API, HTML, CSS, JavaScript, Git, Jupyter Notebook

- **Stray Animals Support Portal**

Description: A web-based platform aimed at supporting and rescuing stray animals by connecting volunteers, NGOs, and concerned citizens. The portal allows users to report stray animals in need, locate nearby shelters or vet clinics, and donate to verified rescue campaigns. Integrated location-based services, form submissions, and a backend dashboard for managing reports and requests. Focused on creating a compassionate ecosystem that enables faster response times and encourages community involvement in animal welfare.

Tech Stack: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, Google Maps API, Git

CO-CURRICULAR & EXTRA CURRICULAR ACTIVITIES

- **Hackathons:**
 - Participated in Synthack DSATM IEE Hackathon 2025
 - Participated in The Social Hackathon CMRIT 2025
 - **Online Courses & Certifications:**
 - Certified on Python Bootcamp course from Udemy
 - Certified on The Complete 2024 Web Development Bootcamp course from Udemy
 - Certified on Mastering Data Structures & Algorithms using C course from Udemy
 - **NSS:**
 - Active volunteer in NSS, CMR Institute of Technology
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ACHIEVEMENTS

- Secured 3rd rank in 5th semester of B.E. in Computer Science at college level
 - Team placed under top 15 in DSATM Synthack 2025
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PERSONAL DETAILS

Date of Birth : 18th December 2004
Gender : Female
Nationality : Indian
Permanent Address : Village Bagi, Devgarh, Kotkhai, Shimla-171202, Himachal Pradesh
Linguistic Competency : English, Hindi
Hobbies : Reading, Travelling