

Aaratrika Shelly

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Profile

I am a driven, curious, and passionate Computer Science undergraduate with a deep interest in learning through the creation of and completion of innovative projects. My skill set includes web scraping, data analysis, and software development. I am a fast and continuous learner, always eager to grow, collaborate, and contribute meaningfully to team-oriented projects and real-world problem solving.

Education

The LNM Institute of Information Technology

Aug 2024 – Present

B.Tech. in Computer Science

- GPA: 9.19/10

Bhagirathi International School, Dehradun

2024

CBSE Class XII

- Percentage: 94%

Convent of Jesus and Mary, Dehradun

2022

ICSE Class X

- Percentage: 98.6%

Projects

Second-Hand Car Data Analytics Platform — *Python, Selenium, BeautifulSoup*

- Developed a Web Scraper to automatically extract data (make, model, year, price, mileage, location) from Cars24.
- Cleaned and preprocessed raw HTML data into structured format for further analysis.

City Weather Fetcher — *Python, OpenWeatherMap API*

- Built a script-based application to retrieve and display real-time weather data for any city input by the user.
- Integrated and parsed responses from the OpenWeatherMap API to extract and present relevant weather details.

Hand Gesture Bot — *Python, OpenCV, Mediapipe*

- Implemented a computer vision system to detect and track hand gestures in real time using webcam feed.

AI and Robotics Workshop — *Python, OpenCV,*

- Participated in a workshop conducted by the Robotics Club of LNMIIT.
- Learned and implemented real-time face detection and feature identification using webcam and OpenCV.

Technologies

Languages: Python, C, Java, HTML/CSS

Libraries and Frameworks: OpenCV, Mediapipe, BeautifulSoup, Selenium, Requests, Numpy, Pandas

Microcontroller: Arduino

Tools & Platforms: VS Code, Google Colab, Linux(WSL)

Concepts/Skills: Web Scraping, Data Cleaning & Preprocessing, Web Development(Frontend Only Learning)

Soft Skills: Teamwork, Quick Learner, Problem Solving, Writing (Creative)