

Satyam Rana

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SUMMARY:

Passionate computer science with artificial intelligence student eager to build, learn, and grow through real-world tech experiences.

TECHNICAL SKILLS:

- **Frontend** - HTML, CSS, JavaScript, React
 - **Backend** - NodeJs, Express Js
 - **Database** - mySQL, MongoDB
 - **Programming Languages** - C, Python
 - Object Oriented Programming
 - Git and Github
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EXPERIENCE:

Research and Content Writer - Codynn | Feb 2024 - Jul 2024

- Created beginner to advanced C programming courses and tutorials.
 - Designed coding challenges to enhance problem-solving skills.
 - Produced project-based educational videos for learners.
 - Conducted technical research to support content development.
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CERTIFICATIONS:

- Certification of Completion: Intermediate Python - Datacamp
 - Certification of Completion: Python - Kaggle
 - Certification of Completion: Generative in Practice - Sololearn
 - Certification of Completion: C - Sololearn
 - Certificate of Participation - Codarambha Hackfest 2025
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PROJECTS:

[\[LINK\]](#) Rain Prediction and Humidity - Temperature Forecasting AI Model

Tech Stack - Python, Numpy, Pandas, Sklearn

- Created a basic ML model to predict rainfall, humidity, and temperature using a small cleaned dataset
- Set up simple feature processing steps to handle core weather inputs
- Organized the project into a clean, beginner-friendly structure for easy updates

[\[LINK\]](#) Portfolio Website

Tech Stack - HTML, CSS, Javascript

- Frontend developed using HTML, CSS and Javascript
- Modern UI with animations
- Responsive site

[\[LINK\]](#) Study Timer - Frontend and Backend

Tech Stack - HTML, CSS, Javascript, React

- Frontend developed using React
- Digital Clock and Stopwatch
- Rain music

[\[LINK\]](#) **Air Quality Tracker** - Frontend and Backend

Tech Stack - HTML, CSS, JavaScript, PHP

- Frontend developed using HTML, CSS and Javascript.
- Used Javascript to fetch APIs and backend.
- Used mySQL for databases.
- Air Quality tracker by fetching API and storing data on database for future use.

[\[Link\]](#) **Modern Calculator** - Frontend and Backend

Tech Stack - HTML, CSS, Javascript

- Frontend developed using HTML and CSS
- Calculator backend work done from JavaScript.
- Does all the calculations without having to equal everytime.

[\[Link\]](#) **File MIME Type Checker**

Tech Stack - Python

- Processed and normalized file names for consistency.
- Detected and returned correct MIME types for common file formats.

[\[Link\]](#) **Caesar Cipher Implementation**

Tech Stack - C

- Accepted a single integer as a command-line encryption key.
- Validated input to ensure a positive integer argument.
- Preserved letter case during encryption.
- Left non-alphabetic characters unchanged.

Education:

1. Bsc(Hons) Computer Science with Artificial Intelligence | Birmingham City University | 2025 - 2029
2. Completed +2 | Science with Computer Science | Uniglobe Secondary School | 2080 - 2082