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
- **Progaming Languages -** C, Python
- Object Oriented Programing
- Git and Github

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.

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

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 Univeristy | 2025 - 2029
2. Completed +2 | Science with Computer Science | Uniglobe Secondary School | 2080 - 2082