

# 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.

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## 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: Data Manipulation with Pandas - Datacamp
  - 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.

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## 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