

# Sameer Choudhary

Hajipur, Bihar

+91 7484856107 | [Email](#) | [LinkedIn](#) | [github.com/Sameerkc3579](https://github.com/Sameerkc3579)

## EDUCATION

### International Institute of Information Technology Naya Raipur (IIIT)

B.Tech in Data Science & Artificial Intelligence

Aug. 2024 – 2028

Naya Raipur, Chhattisgarh

## RELEVANT COURSEWORK

**CS Core:** Data Structures, Algorithms, DBMS, Operating Systems

**AI Specialization:** Natural Language Processing (NLP), Reinforcement Learning, Computer Vision, Representational Learning, Machine Learning, Deep Learning

## PROJECTS

### HimachaliVerse | [Python](#), [PyTorch](#), [HuggingFace M2M100](#)

july 2025

- Developed a Neural Machine Translation (NMT) system for the low-resource language using the \*\*M2M100\*\* architecture.
- Fine-tuned the pre-trained M2M100 model on a custom dataset to bridge the linguistic gap between regional Indian languages and Hindi.
- Implemented advanced tokenization and calculated BLEU scores to validate model performance against baselines.

### Accident Detection System | [GitHub Link](#) | [Python](#), [OpenCV](#), [Computer Vision](#)

January 2025

- Built a video analysis system capable of detecting vehicle accidents in real-time from surveillance feeds.
- Utilized Computer Vision techniques and image processing to identify collision anomalies and rapid frame changes.
- Designed the system to trigger automated alerts upon accident detection to assist emergency response.

### Somato (Food Delivery Clone) | [GitHub Link](#) | [React](#), [JavaScript](#), [CSS](#)

December 2025

- Developed a frontend clone of the Zomato application featuring dynamic restaurant listings and menu navigation.
- Implemented core functionalities including a shopping cart system, item filtering, and responsive UI design.
- Structured the codebase with component-based architecture for scalability and cleaner state management.

## TECHNICAL SKILLS

**Languages:** Python, C++, Java, TypeScript, JavaScript, SQL

**AI/ML:** PyTorch, M2M100, Transformers, OpenCV, Scikit-learn, Pandas, NumPy

**Web Development:** Next.js, React, HTML/CSS, Node.js

## CERTIFICATES

### Introduction to Artificial Intelligence

2025

*Infosys Springboard*

[View Certificate](#)

### Introduction to Deep Learning

2025

*Infosys Springboard*

[View Certificate](#)

### Natural Language Processing using Python

2025

*Infosys Springboard*

[View Certificate](#)

### AI-900: Microsoft Azure AI Fundamentals

2025

*Infosys Springboard*

[View Certificate](#)