

# Sameer Choudhary

Hajipur, Bihar

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## EDUCATION

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

Aug. 2024 – 2028

*B.Tech in Data Science & Artificial Intelligence*

*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](#)