

Sameer Choudhary

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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*

September 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*

July 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*

August 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](#)