Sameer Choudhary

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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*