

# Sambhav Jain

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## ACADEMIC DETAILS

Year	Degree/Exam	Institute	GPA/Marks(%)
Aug 2022 - Present	B.TECH in Computer Science	Graphic Era University Dehradun	8.44/10.0
2022	12 <sup>th</sup> , I.C.S.E	St. Jude's School	68.20 %
2020	10 <sup>th</sup> , I.C.S.E	St. Jude's School	80.00 %

## PROJECTS

- **Real-Time Object Detection System** : Developed a real-time object detection system using YOLO (You Only Look Once) for object classification and DeepSORT for object tracking. The system processes input from various video sources (webcam, stream URL, or MP4 file) and performs object detection with bounding box predictions. It allows users to trigger detection and displays real-time object counts and classifications, providing immediate feedback on detected objects.
- **Sentiment And Emotion Analysis** : Developed a system using Python, machine learning, and natural language processing (NLP) to analyze sentiments and emotions in YouTube video comments. The system classifies comments into categories, providing insights into user sentiments.
- **Image Classification Model** : Developed a Convolutional Neural Network (CNN)-based model to accurately classify and predict a person's emotion (happy or sad) from an image.
- **File Encrypter and Decrypter**: Built a lightweight command-line tool for encrypting and decrypting files across multiple formats. Emphasized efficient, secure file operations.

## TECHNICAL SKILLS

- **Programming Languages**: Java, C, C++, Python
- **Artificial Intelligence (AI)**: Natural Language Processing (NLP), Prompt Coding.
- **Developer Tools**: GitHub, Google Colab, Kaggle, Jupyter Notebook

## RESEARCH PAPER

- **Review of NLP in various fields** : Currently conducting a research on the applications of NLP in various fields especially medicine.

## CERTIFICATIONS

- **Ethics Review of Health Research**: Successfully completed the NIE-ICMR e-Certificate course (NIECer 102), awarded by the World Health Organization (WHO) and Indian Council of Medical Research (ICMR). This course provided an in-depth understanding of ethical principles and guidelines essential for conducting health research responsibly.

## ACHIEVEMENTS

- **Leetcode**: Earned the 100 days badge and solved over 200 questions, demonstrating persistence, problem-solving skills, and algorithmic thinking.