



# Harshul Nanda

Machine Learning Engineer

As a highly motivated individual with a strong passion for technology and continuous learning, I thrive on challenges and view them as opportunities to expand my knowledge and enhance my skills in the field of computer science. With a track record of successfully completing more than 20 projects using a variety of programming languages and frameworks, I am confident in my ability to tackle complex problems and deliver high-quality results.

## Education

- 2019 Senior Secondary, Central Board of Secondary Education, 91.20% (Boards Examination).  
2021 Secondary, Central Board of Secondary Education, 90.20% (Boards Examination).  
2021- Present Information Technology and Mathematical Innovation, Cluster Innovation Centre, University of Delhi.

## Qualifications

- 2021 Qualified DUET with All India Rank 22.  
2021 Qualified JEE Mains with All India Rank 44691, a total of 2.2 million students appeared this year

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## Certifications

- 2020 Python Certification, Hackerrank  
2021 LaTex, Geo University Certification Course  
2022 JavaScript Certification, Hackerrank  
2022 Data Structures & Algorithms, AlgoExpert  
2022 Coursera Guided Projects in Machine Learning, GitHub Repository

## Work Experience

- 2022 Algorithms Content Writer Intern, OpenGenus Foundation. 2 months Published algorithm and data structure articles with practical implementation, demonstrating diverse methods and mathematical skills  
2022 Machine Learning Intern, Beyond Exams. 5 months Developed machine learning models for binary classification of YouTube videos as educational or noneducational.  
2023 Software Engineer, Paras Labs. 3 months Worked on a variety of projects and gained hands-on experience in developing high-quality mobile applications for iOS devices.

## Projects

- 2021 Web Development, Personal Portfolio Website. 1 month Developed a responsive personal portfolio website using HTML, CSS, and JavaScript, featuring skills, experience, and projects, with design prototyping in Figma.  
2022 YouTube Video Analytics and Categorisation Platform, HARM Bot. 3 months Created a web app with Streamlit to display YouTube video details, analytics, and channel stats. Used TensorFlow Keras for text classification on video titles and descriptions to predict categories. Integrated a binary image classification model to categorize thumbnails and classify them into subcategories based on Beyond Exams.  
2023 Crime Prediction in Conversations, Text Classification Comparisons. 3 months Developed and evaluated text classification models to identify conversations leading to crime using Multinomial Naive Bayes, RNNs, CNNs, and pre-trained models like BERT and RoBERTa. Fine-tuned the best-performing model for high accuracy and contributed to public safety and natural language processing research.  
2023 Custom Loss Function Analysis, Mnist-GAN. 1 month Researched and analysed the results of Digits Generator GAN model architecture trained on the MNIST dataset with different customizations in loss function of a GAN model as proposed in the original paper.

## Skills

