



# 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

**Address** Uttam Nagar, New Delhi  
**Contact** +91-9582455996  
**Mail** [harshulnanda0@gmail.com](mailto:harshulnanda0@gmail.com)  
**LinkedIn** <https://www.linkedin.com/in/harshulnanda/>  
**GitHub** <https://github.com/Harshul-18>

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

## Projects

- 2021 1 month **Web Development**, [Personal Portfolio Website](#). Developed a responsive personal portfolio website using HTML, CSS, and JavaScript, featuring skills, experience, and projects, with design prototyping in Figma.
- 2022 3 months **YouTube Video Analytics and Categorisation Platform**, [HARM Bot](#). 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 3 months **Crime Prediction in Conversations**, [Text Classification Comparisons](#). 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 1 month **Custom Loss Function Analysis**, [Mnist-GAN](#). 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

