



Harshul Nanda

Machine Learning Engineer

Driven by a passion for technology and continuous learning, I embrace challenges as opportunities to expand my knowledge and enhance my skillset in computer science.

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](#)

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

