



# 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, 9.06 CGPA.

## 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

## Personal Portfolio Website Youtube Channel

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**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.
- 2023 2 months **Machine Learning Engineer**, Havells India Ltd. Practiced Time Series Forecasting using various Statistical models and frameworks.

## Projects

- 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

<b>Python</b> Sci-Kit Learn Matplotlib Pandas Numpy TensorFlow	<b>Web Technology</b> JavaScript CSS HTML	<b>App Technology</b> Flutter SwiftUI
<b>Database</b> MySQL	<b>UI/UX &amp; Editing</b> Keynote Figma iMovie	

- Solved 137 LeetCode problems.
- CodeWars rating 3 kyu.
- Solved 179 LintCode problems.