



# 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](#)

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

## Projects

- 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

<b>Python</b> <ul style="list-style-type: none"><li> Sci-Kit Learn</li><li> Matplotlib</li><li> Pandas</li><li> Numpy</li><li> TensorFlow</li></ul>	<b>Web Technology</b> <ul style="list-style-type: none"><li> JavaScript</li><li> CSS</li><li> HTML</li></ul> <b>Database</b> <ul style="list-style-type: none"><li> MySQL</li></ul>	<b>App Technology</b> <ul style="list-style-type: none"><li> Flutter</li><li> SwiftUI</li></ul> <b>UI/UX &amp; Editing</b> <ul style="list-style-type: none"><li> Keynote</li><li> Figma</li><li> iMovie</li></ul>
---	---	--

- Solved 137 [LeetCode](#) problems.
- [CodeWars](#) rating 3 kyu.
- Solved 179 [LintCode](#) problems.