



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

Personal Portfolio Website

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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 **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

- 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

Python Sci-Kit Learn Matplotlib Pandas Numpy TensorFlow	Web Technology JavaScript CSS HTML	App Technology Flutter SwiftUI
Database MySQL	Version Control Git	

- Solved 127 [LeetCode](#) problems.
- [CodeWars](#) rating 3 kyu.
- Solved 109 [LintCode](#) problems.