



BRIEF SUMMARY

B.Tech student in Electronics & Communications with a minor in AI & Data Science at LNM Institute of Information Technology (CGPA: 6.61). Experienced in Machine Learning, Deep Learning, and competitive programming (800+ LeetCode problems solved, 1700+ rating). Built high-impact projects including LSTM airfare predictor and ANN digit recognition. Skilled in Python, C/C++, MATLAB, and web development, with a strong track record of hands-on problem-solving and academic growth.

EDUCATION

LNM Institute of Information Technology

2023 - 2027

B.Tech. - ECE | CGPA: 6.61 / 10

Timpany School

2023

12th | CISCE | Percentage: 90 / 100

Timpany School

2021

10th | Percentage: 95 / 100

PROJECTS

Personal Portfolio Website

Key Skills: HTML CSS JS Github version control

Project Link: https://nidhibaratum.github.io/my_portfolio/

Developed a professional portfolio website to present my work and make a strong impression on recruiters.

Airfare Predictor

Key Skills:

AI Machine Learning Artificial Neural Networks Github Long Short-Term Memory Feature Extraction
Feature Selection Data Cleaning Documentation Python

Project Link: https://github.com/nidhibaratum/DATA-SCIENCE-PROJECT/blob/main/airfare_predictor_final_version.ipynb

Built an LSTM model predicting airfare with 91% accuracy and MAE 0.0513, handling end-to-end preprocessing and feature engineering using goibibo dataset.

Video Link: <https://drive.google.com/file/d/14IEiWjOFOG0LrFIU0yhw-gKpMWEEn42LP/view>

Article Link: https://nidhibaratum.github.io/my_portfolio/blogs/airfare-predictor.html

Digit Recognition Neural Network

Team Size: 3

Key Skills: AI Artificial Neural Networks Deep Learning Computer Vision Teamwork Python

Project Link: <https://github.com/nidhibaratum/Handwritten-Digit-Recognition-with-Neural-Networks>

Built an ANN achieving 97.41% accuracy on MNIST, handling end-to-end preprocessing, training, and evaluation.

Article Link: https://nidhibaratum.github.io/my_portfolio/blogs/digit-recognition.html

Iris Species Predictor

Key Skills: Interfaces Python AIML Artificial Neural Networks Pipelines Github

Project Link: <https://github.com/nidhibaratum/Predicting-the-species-of-an-unknown-iris-type-flower>

Developed an ANN achieving 93% accuracy for classifying Iris species, covering full pipeline from data preprocessing to evaluation.

Article Link: https://nidhibaratum.github.io/my_portfolio/blogs/iris-predictor.html

Hexadecimal to Binary Converter on 8051 Microcontroller

Key Skills: Embedded C Embedded Systems 8051 Microcontroller

Project Link: <https://drive.google.com/file/d/1BC1wSAC3uHvqVZpOaRsfCdXnD9MYl3c3/view?usp=sharing>

Built an embedded system converting hexadecimal input via keypad to binary on LCD, showcasing microcontroller interfacing and number system conversions.

Four Bit Ring Counter FPGA Project

Team Size: 2

Key Skills: FPGA, VHDL, teamwork

Project Link: <https://drive.google.com/file/d/1i15-qfD2MtWKnWEvbfVcyzmlBfPjirT/view?usp=sharing>

Designed a 4-bit ring counter on Nexys 4 DDR FPGA with clock-driven states displayed on 7-segment and LEDs, demonstrating digital logic and hardware design.

EXTRA CURRICULAR ACTIVITIES

- LeetCode Contest Rating: 1700+
- All-India Rank 51215 out of ~1.11 million+ candidates in JEE Main 2023, showcasing strong performance in one of India's most competitive engineering exams.
- Kaggle: Active contributor in Machine Learning competitions
- Vepa Annapoorniah Prize, Timpany School – Best Pupil in Mathematics (12th ISC)
- State-Level Skater and active member of Zenith Fitness Club at college

PERSONAL INTERESTS / HOBBIES

- drawing
- playing chess
- running marathons

WEB LINKS

- Other - <https://leetcode.com/u/nidhibaratam2005/>
- Github - <https://github.com/nidhibaratam>
- Personal - https://github.com/nidhibaratam/my_portfolio

PERSONAL DETAILS

Gender: Female

Marital Status: Single

Current Address: The LNM institute of Information Technology, Jaipur, Rajasthan, India - 302031

Emails: 23uec527@lnmiit.ac.in , nidhibaratam2005@gmail.com

Date of Birth: 28 Dec, 2005

Known Languages: English, Telugu, Hindi

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