

# Harshit Dhankhar

Mobile : 8527872373

Email : dhankharharshit@gmail.com

Linkedin : <https://www.linkedin.com/in/harshitdhankhar>

## EDUCATION

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- **Indian Institute of Technology (IIT) Patna** Patna, India  
*Bachelor of Science in Mathematics and Computing; CPI: 8.56 on 10.0* 2021 – 2025 (Expected)
- **Amity International School, Mayur Vihar** New Delhi, India  
*Class 12th- CBSE Board; 96%* 2019-2021

## ACHIEVEMENTS

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- **Inter IIT Tech Meet, 2022- Presenter:** Studied the project “Sevak – An Intelligent Indian Language Chatbot” along with some corresponding research papers. Presented the same.
- **Smart India Hackathon, 2022- Runner Up:** Developed a Machine Learning model in 36 hours using NLP to predict career paths for individuals and integrated it into the Django framework using PostgreSQL.
- **Sudo Override, 2022- 2nd position:** CTF competition under Celesta. Used Steganography, Deciphering techniques and various Linux modules in Kali Linux and Ubuntu.
- **National Space Society’s Space Settlement Contest, 2020- Regionalist:** Built a sustainable space settlement for humans in a team of 8 people.

## TECHNICAL SKILLS

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- **Most experienced with:** C, C++, Linux OS, Python, Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, MATLAB and Octave.
- **Some experience with:** HTML, CSS, Git, GitHub, Latex and Django framework.
- **Work on ML models:** Built ML models for various datasets such as Titanic survival, Iris, Diabetes, Breast Cancer Detection, MNIST, Spam Classifier, etc.
- **Course on Machine Learning by Andrew Ng:** Covered basics of ML, Linear Regression, Logistic Regression, Neural Networks, Debugging, SVM, K nearest neighbours, K means and Anomaly detection.
- **Data Structures and Algorithms:** Covered topics such as Models of Computation, Time Complexity Analysis, Recursion, Linked Lists, Queues, Hashing, Binary Search Trees, AVL Trees, Heaps, Sorting Algorithms, Graphs and NP-Completeness.
- **Course on Fundamentals of Cyber Security by TryHackMe:** Covered Networking basics, Subnetting, ARP protocol, DHCP Protocol, Linux commands, etc.
- **Course: Mathematics - II (MA102):** Covered Linear Algebra, Ordinary Differential Equations, Power Series methods, etc.
- **Course: Digital Systems (CS227):** Covered Logic gates, K map, Latches, Counters, Finite state machine model, Logic devices, Control path, Arduino programming, etc.
- **Course: Discrete Maths (MA213):** Covered Boolean Algebra, Sets, Relations and Functions, Mathematical Logic, Counting Techniques and Graph Theory.

## INVOLVEMENT

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- **National Service Scheme**  
*Volunteer* November 2021 - July 2022  
Worked alongside other volunteers to conduct outreach drives for various public issues.
- **TEDxIITPatna**  
*Sub-coordinator: Planning and Curation* May 2022 - September 2022  
Reached out to various personalities and worked with them to curate their TED Talk.
- **Celesta- Annual Techno-Management Fest, IIT Patna**  
*Sub-coordinator: Sponsorship* September 2022 - Present  
My work includes reaching out to MnCs across India, creating a network and pitching for sponsorship.
- **Forthright- Media Body, IIT Patna**  
*Content Correspondent* April 2022 - Present  
Have worked in curation, drafting and editing of various articles.