

# Nabajyoti Sharma

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 Nabajyoti Sharma •  Nabajyoti Sharma

## EDUCATION

### Leading University (Bachelor of Science), Computer Science and Engineering

Jan. 2020 – Dec. 2023

- Completed 152 credit hours with expertise on "Machine Learning," "Data Structures and Algorithms," "Object-Oriented Programming," and "Web Technologies," and achieved a CGPA of 3.54 out of 4.

## WORK EXPERIENCE

### Undergraduate Research Assistant, InteX Research Lab

Sept. 2023 - Present

- Contributed to research in various fields, including machine, deep learning, and computer vision.

## PUBLICATION

- N. Sharma, A. A. Toma and M. Saidur Rahman Kohinoor, "Efficient Segmentation Techniques for the Automated Detection of Acute Lymphoblastic Leukemia (ALL) in Microscopic Images," 2023 26th International Conference on Computer and Information Technology (ICCIT), Cox's Bazar, Bangladesh, 2023, pp. 1-6, <https://doi.org/10.1109/iccit60459.2023.10441472>.

## RESEARCH EXPERIENCE

### An Automated Computer-Aided Diagnosis (CAD) System of Leukemia Detection through Computer Vision and Ensemble Deep Learning.

April 2024 - Present

- Designed an automated system for cancer cell detection and classification using transfer learning with a custom classifier, evaluated on two datasets. The work is being prepared for submission to a Q1 journal.

### A Deep Learning Approach to Fetal Head Plane Segmentation in Ultrasound Imaging.

Sept. 2024 - Present

- Developed a deep learning-based system for fetal head plane segmentation using Vision Transformers, evaluated on a large-scale fetal head biometry dataset, with the work preparing for journal submission.

## PROJECTS

### Web-Based Solution for Leukemia Classification for Hematologists

Sept. 2024 - Present

- Developed a web-based solution for leukemia classification, automating diagnostics with advanced image analysis. This system improves accuracy, reduces manual effort, and enhances patient care.

### E-Delivery Robot

Sept. 2022 - March 2023

- Designed an Arduino-based E-Delivery Robot with GPS navigation for autonomous item delivery. Powered by an Arduino Mega, it enables seamless material transfer without manual intervention.

## SKILLS

- Programming Languages:** C/C++, Python, Java | **Web Technologies:** HTML, CSS, JS | **Database:** MySQL
- Software Tools:** Visual Studio Code, GitHub, Draw.io, MS Office
- Data Science & Machine Learning Libraries:** Numpy, Pandas, Tensorflow, OpenCv, Matplotlib

## PROFESSIONAL TRAINING

- AI/ML Professional Training** (Oct. 2023 - Feb. 2024)  
Hackules Inc., InteX Research Lab, Bangladesh
- Master HTML and CSS by Building Real-World Projects** (Sept. - Oct. 2023)  
Udemy, Inc.
- Master Git and GitHub – Beginner to Expert** (Oct. 2023)  
Udemy, Inc.
- Master Class on Machine Learning** (Sept. - Oct. 2022)  
Pantech Prolabs India Pvt Ltd
- AI Master Class** (Oct. - Dec. 2022)  
Pantech Prolabs India Pvt Ltd

## CONFERENCES AND SEMINARS

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- **ICCIT 2023 – 26th International Conference on Computer and Information Technology:** The 26th International Conference on Computer and Information Technology (ICCIT 2023) was held from December 13 to 15, 2023, at the Long Beach Hotel in Cox's Bazar, Bangladesh. Organized by the IEEE Bangladesh Section, the conference brought together scholars and industry professionals to discuss advancements in computer and information technology.
- **International Student-LED Conference 2023:** The IEEE Bangladesh Section, in collaboration with the IEEE AIUB and IEEE NSU Student Branches, hosted the International Student-LED Conference (STUDENT-LED CON 2023). Held as a hybrid event from December 13 to 15, 2023, at the Long Beach Hotel in Cox's Bazar, the conference provided a platform for professionals, researchers, and students to share ideas and discuss innovation across various fields.

## HONORS & AWARDS

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- **Award of Appreciation – ICCIT 2023:** Recognized for the acceptance and publication of a conference paper in IEEE Xplore.
- **Certificate of Appreciation – Student-Led Con 2023:** Honored for outstanding participation in the undergraduate thesis paper contest.
- **Certificate of Appreciation – District Administration 2023:** Participated in the Smart village Idea Competition, Sylhet Region, Leading University.

## MANAGEMENT & LEADERSHIP SKILLS

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- **Joint Secretary (2023):** Leading University Photographic Society: Organized workshops, promoted photography through events and social media, and fostered a creative student community.
- **Executive Member (2022):** Leading University Computer Club: Contributed to a university hackathon and supported BitFest 2022, ensuring smooth execution and participant engagement.

## LANGUAGE PROFICIENCY

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- **IELTS (International English Language Testing System)**
  - **Overall: 7.0**
  - Listening: 7.0 | Reading: 7.0 | Writing: 6.5 | Speaking 7.0