

# Abhay Sharma

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🔗 LeetCode

📁 Portfolio

## Education

- **National Institute of Technology, Silchar** **Silchar, India**  
*B.Tech in Computer Science and Engineering; CGPA: 9.57* *2023 - Present*
- **Kendriya Vidyalaya No. 1, Kota** **Kota, India**  
*Higher Secondary (10+2); Percentage: 94.6* *2022*
- **Kendriya Vidyalaya No. 1, Kota** **Kota, India**  
*High School (10th Grade); Percentage: 89.4* *2020*

## Experience

- **IEEE Winter Internship** **NIT Silchar**  
*Winter Intern – AI/ML and System Design* *Dec 2023 - Jan 2024*
  - Data Preprocessing & Model Integration: Worked with CSV time-series data, normalized datasets, and integrated AI logic into a Streamlit web app for live testing and real-time analysis.

## Projects

- **Agri-AI Sprinkler System Simulator** [Repository Link](#)
  - Description: Developed a comprehensive digital twin of an AI-powered sprinkler system tailored for Northeast Indian tea gardens, featuring weather prediction and automated irrigation control.
  - Tech Stack: Python, Streamlit, Machine Learning, IoT Simulation, Data Analytics.
- **Social Media Chat System** [Repository Link](#)
  - Description: Built a robust real-time messaging system in C++ with MySQL database integration, supporting private and group chat functionalities with multithreading capabilities.
  - Tech Stack: C++, MySQL, Socket Programming, Multithreading, Network Programming.
- **Real-time Object Detection (YOLO)** [Repository Link](#)
  - Description: Implemented YOLO algorithm using Darknet framework for real-time object detection, achieving high accuracy with optimized inference speed for video streams.
  - Tech Stack: Python, YOLO, OpenCV, Darknet, Computer Vision, Deep Learning.
- **OCT Image Classification** [Repository Link](#)
  - Description: Developed a deep learning web application for classifying Optical Coherence Tomography retinal images using ResNet architecture, achieving high classification accuracy for medical diagnosis.
  - Tech Stack: Python, PyTorch, ResNet, Streamlit, Medical Imaging, Deep Learning.

## Skills

- **Languages:** Python, C++, C, MATLAB, R
- **Programming Concepts:** Object-Oriented Programming (OOP), Data Structures and Algorithms (DSA)
- **Frameworks:** PyTorch, TensorFlow, Scikit-learn, Keras, Streamlit
- **Tools:** Git, GitHub, AWS, Docker, Jupyter, MySQL
- **Soft Skills:** Leadership, Event Management, Team Collaboration, Communication, Problem Solving

## Positions of Responsibility

- **Illuminite Club, NIT Silchar** **NIT Silchar**  
*Technical Team Member* *Aug 2023 - Present*
  - Website Development: Actively contribute to the development and maintenance of the Illuminite club website, focusing on frontend and backend functionalities to enhance user experience.
  - Technical Collaboration: Work closely with team members on web development projects, implementing modern technologies and ensuring responsive design across multiple platforms.

## Honors and Achievements

- **Competitive Programming** Maintained active profile on LeetCode with consistent problem-solving practice and algorithmic thinking development.
- **Hackathon Participation** Participated in prestigious hackathons including 5G Hackathon (Government of India) and Cyfuture Hackathon, showcasing innovation and technical problem-solving skills.
- **Academic Excellence** Achieved 9.57 CGPA in competitive NIT environment, demonstrating consistent high academic performance in Computer Science and Engineering.
- **Technical Projects** Successfully developed and deployed multiple full-stack projects including AI-powered systems, real-time applications, and machine learning models.