

Pratyush Prem Tiwari

Leetcode: [pratyushptiwari](#)
Github: [Pratyush-PT](#)
LinkedIn: [Pratyush Tiwari](#)

Email: pratyushpremtiwari@gmail.com
Mobile: +91 9129254531

EDUCATION

- National Institute of Technology, Silchar** Assam, India
Bachelor of Technology - Electrical Engineering; CGPA: 7.86 November 2022 - June 2026
- J.P.Education Academy** Uttar Pradesh, India
CBSE; Percentage: 94 March 2020 - April 2022

INTERNSHIP EXPERIENCE

Satyendra Nath Bose Research Intern, NIT Silchar Remote
Short-Term Load Forecasting Using Machine Learning [Colab](#)

- Developed and fine-tuned a **deep learning LSTM-based model** using **TensorFlow**, gaining hands-on experience in **model training, evaluation, and experimental performance analysis**.
- Built scalable **data preprocessing pipelines** with **pandas** and **scikit-learn**, supporting **experimentation, automated retraining**, and efficient model optimization.

Technical Intern – Newton School Remote
NSAT (Newton Scholastic Aptitude Test)

- Enhanced the **candidate-facing platform** by resolving **UI and workflow issues**, strengthening experience in **debugging, system reliability, and production support**.
- Performed **API testing and logic validation** for **timed assessment systems**, ensuring accurate **data persistence, reliable real-time processing**, and supporting **evaluation workflows**.

PROJECTS

EasyApply – Placement Application Platform [Project Link](#)
Group Project (Ongoing)

- Engineered a scalable full-stack platform using **Next.js** and **MongoDB**, building **RESTful APIs** and optimizing performance with **SSR** for reliable, production-ready systems.
- Developed a secure frontend with **React** and **Tailwind CSS**, implementing **JWT authentication** and **RBAC** to support role-based access and system integrity.

Pedestrian Detection [Project Link](#)
Individual Project

- Built a **real-time pedestrian monitoring system** using **YOLOv8** and **OpenCV**, processing live webcam streams to perform **deep-learning-based object detection** and people localization.
- Designed an end-to-end **computer vision pipeline** with **FPS performance monitoring** and **time-stamped data logging** to CSV, enabling basic analytics and model evaluation.

Rent-Karo [Project Link](#)
Group Project

- Developed a scalable **peer-to-peer rental marketplace** for college campuses, focusing on **efficient workflows**, performance optimization, and maintainable system design.
- Implemented optimized **search algorithms** and **secure authentication** using **Auth0**, improving user privacy and reducing platform load times by **30%**.

SKILLS

Programming Languages: Python, C++, JavaScript
Frameworks & Libraries: TensorFlow, Scikit-learn, Pandas, NumPy, OpenCV, YOLOv8, LangChain
Databases & Tools: MySQL, MongoDB, Git, Docker, RESTful APIs, Vector Databases
CS Fundamentals: Data Structures & Algorithms, OOP, DBMS, Operating Systems
Platforms: Windows, Linux, macOS

POSITION OF RESPONSIBILITY

Training and Placement Cell, NIT Silchar Onsite
Training and Placement Coordinator May 2025 – Present

- Coordinated placement activities for **1,500+ students annually**, including interviews and recruitment events.
- Built strong **employer relationships** to support effective campus hiring outcomes.

ACHIEVEMENTS

- Solved **600+ DSA** questions on various platforms like [LeetCode](#), [GeeksforGeeks](#), [Codeforces](#), and [Code360](#).