

# Pratyush Prem Tiwari

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## EDUCATION

### National Institute of Technology, Silchar

- Bachelor of Technology - Electrical Engineering; CGPA: 7.86

Assam, India

November 2022 - June 2026

### J.P.Education Academy

- CBSE; Percentage: 94

Uttar Pradesh, India

March 2020 - April 2022

## INTERNSHIP EXPERIENCE

### Satyendra Nath Bose Research Intern, NIT Silchar

Short-Term Load Forecasting Using Machine Learning

Remote

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

NSAT (Newton Scholastic Aptitude Test)

Remote

- 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](#).