

Prem Kumar Lohani

📞 +91 7488679003 ✉ Email [🌐 LinkedIn](#) [🐙 GitHub](#)

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech Electrical and Electronics Engineering	Birla Institute of Technology, Mesra	8.305 (Absolute)	2022-Present
Senior Secondary	Narbheram Hansraj English School, Jamshedpur	97%	2022
Secondary	Narbheram Hansraj English School, Jamshedpur	96.8%	2020

TECHNICAL SKILLS

Programming Languages: Java, Python, C++ , Javascript

Libraries and Tools: Tensorflow, OpenCV, Git, GitHub

Machine Learning: CNN, YOLO, Transformers(LSTM), LLM

Problem Solving (DSA and CTF): LeetCode, Geeks for Geeks, Codeforces, CodeChef

WORK EXPERIENCE

Human Resources Intern (HR)

Aashman Foundation, India

November 2020 - May 2021

- Led a successful recruitment campaign, earning the Emerging Star certificate for exceptional performance in onboarding new interns.
- Conducted interviews, evaluating candidates' skills and fit for roles, ensuring high-quality talent acquisition.
- Optimized intern documentation and onboarding protocols, achieving a 40% reduction in onboarding times and enhancing cross-departmental communication efficiency by 25% in the first quarter.

PROJECTS

Security Surveillance System | YOLO, Ultralytics, PySide6, Qt, OpenCV, Python, Real-time Object Detection, Twilio API Integration 🐙

- Implemented a **security surveillance system** using the **YOLO** model from the Ultralytics library for accurate **real-time object detection**, focusing on weapons and crowd counting, integrated with the **Twilio API** to send immediate SMS alerts.
- Developed a user-friendly **GUI with PySide6 (Qt for Python)** and used **OpenCV** for accessing and processing live camera feeds and pre-recorded videos, ensuring robust performance and flexibility.
- Utilized a combination of **Python, YOLO, Ultralytics, PySide6, Qt, and OpenCV** to create a comprehensive and efficient surveillance solution for various security applications.

Climate Change Impact on Birds | Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn 🐙

- Utilized **pandas** and **numpy** to handle missing values and perform feature engineering on a weather observation dataset, ensuring data quality and readiness for analysis.
- Employed **pandas** and **matplotlib** to conduct comprehensive EDA, including statistical summaries and visualizations, to uncover patterns and insights from the data, aiding in informed decision-making.
- Developed insightful visualizations using **matplotlib** to illustrate data distributions and relationships, enabling clear communication of findings and data-driven storytelling.

ACHIEVEMENTS

- Secured **3rd** position in HackABit-2024, 24 hours Hackathon organised by ACM, BIT Mesra.
- Achieved the **2nd** position in Student Project Programme - 2024 (Machine Learning), organised by EEE Society, BIT Mesra.
- Attained **1st** in Dev Week - 2023, organised by EEE Society (Data Analysis), BIT Mesra.

POSITION OF RESPONSIBILITY

- **Event Coordinator** in ECE Society, BIT Mesra.

CERTIFICATIONS

- MATLAB Onramp

EXTRA-CURRICULAR ACTIVITIES

- **Volunteer**, ElectroQuest, ECE Society, BIT Mesra.
- **Organising Team Member**, ByteHunt, Bitotsav-2024.
- **Organising Team Member**, Escape Velocity, Bitotsav-2024.