# Prem Kumar Lohani

**J** +91 7488679003 **■** Email **III** LinkedIn **()** GitHub

#### **EDUCATION**

Degree/Certificate	,	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 Langingerd bay a Master K0927 Justing

Libraries and Tools: Tensorflow, Open CV, Git, GitHub

Machine Learning / (70202017) 471222 67 Mers (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 Socity, 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.