



DEBDOOT MANNA

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◆ EDUCATION

Bachelor of Technology

Charotar University of Science & Technology (CHARUSAT), Changa, Gujarat, India

2023 - 2027

High School Diploma (Science)

Navrachana Vidyani Vidyalaya, Vadodara, Gujarat

2011 - 2022

◆ EXPERIENCE

Machine Learning Intern, IT & Systems Department

L&T Energy Hydrocarbon Limited, Vadodara, Gujarat
May 12, 2025 - Jun 27, 2025

Open-Source Contributor & Freelance Developer

Maintained and contributed to 35+ GitHub repositories, including the Auto-Annotator-App for browser-based image annotation.

- Designed and implemented Convolutional Neural Network (CNN) models for object detection using the YOLO framework (YOLOv8/v11E) to identify factory personnel, safety equipment (helmets, jumpsuits) and improve workplace compliance.
- Led manual and automated annotation of ~1,100 images using Labelling and custom scripts, boosting training dataset quality and model accuracy by 15%.
- Optimized data pipelines with Python and OpenCV.

◆ PROJECTS

- browser-whisperer-reveal - A modern, responsive web app that exposes browser fingerprinting data and privacy insights.
- InsightFlowAI - Transforms structured datasets into narrative reports using natural language generation (Next.js, TypeScript).
- Yolo-App - Full-stack application integrating YOLO object detection with a React frontend and Python/Flask backend, enabling image annotation, model training, and real-time result visualization in the browser.

◆ CERTIFICATIONS & ACHIEVEMENTS

- Machine Learning Internship (L&T Energy Hydrocarbon Limited) - 2025
- Participant in 5+ Hackathons and CTFs
- Published research articles on cybersecurity and quantum physics trends

◆ LANGUAGES

- English (Fluent)
- Hindi (Native)
- Bengali (Conversational)

[LINKEDIN](#)