

# Yash Bhatiya

## AI/ML Developer

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## Professional Summary

Results-driven AI/ML Developer with experience in machine learning, computer vision, and full-stack project delivery. Proficient in developing, deploying, and optimizing real-time AI systems for industrial and educational applications. Strong background in teaching, curriculum development, and community engagement. Passionate about leveraging technology to solve real-world problems and continuously adopting the latest advancements in AI and software development.

## Key Skills

- Machine Learning: Scikit-learn, TensorFlow, PyTorch, supervised/unsupervised learning, data preprocessing.
- Deep Learning & Computer Vision: YOLOv7, keypoint estimation, model training & optimization, OpenCV.
- Software Development: Python, C#, Unity, Git, REST APIs, version control.
- AI/ML Deployment: On-premise server integration, cloud services (AWS, GCP).
- Team Collaboration: Technical training, curriculum design, mentoring, project management.
- Communication: Public speaking, technical documentation, social media content creation.

## Professional Experience

### Machine and Deep Learning Intern

L&T Energy Hydrocarbon

Dec 2024 – Apr 2025

- Developed and deployed a real-time safety monitoring system using YOLOv7 for object detection of worker safety gear (helmets, jumpsuits) on L&T's on-premise servers.
- Achieved 95% accuracy in identifying safety violations, reducing manual supervision, and elevating site safety standards.
- Led data collection, labeling, and model training for custom datasets to optimize detection performance.

### Technical Trainer

Jayraj Computer Education

Jan 2024 – May 2024

- Delivered lectures on core computer science and AI/ML topics, conducted hands-on coding sessions, and mentored students from diverse backgrounds.
- Developed and maintained engaging exercises, tutorials, and digital content for student learning and program outreach.
- Provided direct support to students and parents, promoted a collaborative and inclusive learning environment.

- Contributed to curriculum development and organized tech-focused events to keep the teaching program aligned with the latest industry practices.

## Education

| Degree                                     | Institution            | Year      |
|--|------------------------|-----------|
| Bachelor of Computer Science & Engineering | Parul University       | 2022–2025 |
| Diploma in Computer Engineering            | RC Technical Institute | 2019–2022 |

## Projects

- AI-Based Safety Gear Monitoring System**  
Designed and implemented an AI object detection system using YOLOv7, achieving real-time inference and high accuracy for industrial safety compliance.
- Robotic Hand Movement Detection via Keypoint Estimation** (Mar 2025)  
Developed a real-time model utilizing keypoint estimation to detect and track robotic hand movements for automation and controls.
- 3D First-Person Shooter Game in Unity** (Oct 2024)  
Engineered a single-player FPS game with C# in Unity, featuring dynamic AI enemies, optimized game logic, and immersive player experience.
- Discord Chatbot for Community Engagement** (May 2022)  
Built a custom chatbot for Discord using Python, enhancing server activity and moderation through automated, interactive functionalities.

## Additional Information

- Technical Tools: Python, TensorFlow, PyTorch, OpenCV, YOLO, Unity, C#
- Soft Skills: Problem-solving, public speaking, teamwork, proactive learning
- Languages: English, Hindi, Gujarati, Marathi