

ASIF MUSAFIR

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SUMMARY

AI/ML and Vision Engineer with hands-on expertise in AI-driven automation, computer vision, and Generative AI (GenAI) solutions. Specialized in designing and deploying end-to-end pipelines for object detection, segmentation, tracking, OCR, and defect detection. Strong expertise in PyTorch, YOLO, OpenCV, Python, real-time inference, model optimization, and PLC-integrated automation systems.

EDUCATION

KLE Technological University

Bachelor of Engineering - Electronics and Communication

Aug 2020 – Nov 2024

Hubli, India

SKILLS

Languages	Python, C, C++
Libraries	PyTorch, OpenCV, NumPy, Pandas, Matplotlib, NLTK
Tools	Git, Visual Studio, Roboflow, Docker, Zoho sprints
Technologies	Computer Vision, Machine Learning, Deep Learning, NLP, OOP

EXPERIENCE

PICKLEAI INNOVATIONS PRIVATE LIMITED

Jr. Deep Learning Engineer (Computer Vision / Machine Learning)

Mar 2025 – Present

Bengaluru, India

Quality Control for FMCG Products

- Developed and deployed real-time computer vision-based defect detection systems for FMCG production lines, achieving **98% inspection accuracy** and significantly improving production efficiency.
- Implemented pre and post-process visual inspections to ensure product integrity reducing **error rate to less than 0.3%**.
- Implemented **computer vision-based OCR System** to detect printing defects, incorrect labels, and packaging mismatches.
- Ensured high text recognition accuracy under challenging industrial conditions, enhancing **automated quality control**.
- Enabled automated defect rejection by integrating ML inspection outputs with **PLC control**, ensuring real-time traceability through a centralized dashboard.

Automated Multi-Camera License Plate Detection and Recognition System

- Configured IP camera-based ANPR** pipeline with distance and ROI constraints to detect license plates only within the operational range, improving detection accuracy and minimizing false positives.
- Built a coordinated **multi-camera pipeline** using shared inference and asynchronous processing for efficient **real-time performance**.
- Applied **validation and consistency checks** to minimize the errors and maximise system reliability.
- Designed a scalable, **configuration-driven** system supporting video recording, frame capture, and seamless backend API integration.
- Achieved end-to-end license plate recognition accuracy of **96%** under real-world weather and lighting conditions.

Skyfire Applied Intelligence Pvt Limited(Atom360)

Artificial Intelligence Developer Intern

Feb 2024 – Sep 2024

Bengaluru, India

- Conducted **Image quality assessments** specifically focusing on blur detection and image exposure detection to optimize images for accurate diagnosis of the Oral cancer disease.
- Developed and deployed machine learning algorithms for **Image processing on edge devices**.
- Experimented with different models and trained a blur classification model using **transfer learning** with 96% accuracy and an exposure classification model using **CNN with 91% accuracy**, then ensembled both models for a single output.
- Designed **computer vision algorithms** for background identification and filtering

CERTIFICATIONS

- Complete Machine Learning and Data Science Program by GeeksforGeeks
- OCI Generative AI Professional by ORACLE
- Azure Cloud Fundamental AZ-900 by LinkedIn