AKASH R M

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LinkedIn — GitHub — Portfolio

PROFESSIONAL SUMMARY

AI Developer specializing in Deep Learning and Computer Vision with experience in real-time AI systems and scalable ML pipelines. Strong background in model optimization, experimental architecture design, and production-level deployment.

EXPERIENCE

AI Developer – GROW AI (iQue Ventures Pvt. Ltd.), Bengaluru   (2026 – Present)

· Developed real-time person detection and multi-object tracking systems for video analytics applications.

· Engineered end-to-end pipelines for live camera stream processing with optimized inference performance.

· Enhanced detection robustness through threshold tuning and tracking refinement.

AI Developer – Owlytics (iQue Ventures Pvt. Ltd.), Bengaluru   (2025 – 2026)

· Designed and implemented deep learning models for detection and recognition tasks.

· Built scalable ML pipelines covering preprocessing, training, evaluation, and deployment.

· Integrated AI models into production backend systems.

Assistant Technical Writer – Rpinnacle Research Solutions, Tamil Nadu   (2024 – 2025)

· Produced technical documentation for deep learning and data science research.

· Contributed to dataset analysis, experimental evaluation, and comparative model studies.

TECHNICAL SKILLS

· **Frontend Development:** | HTML5, CSS3 | React.js | JavaScript |

· **Backend Development:** | Python | FastAPI, Flask | RESTful API Design |

· **Databases & Cloud Services:** | AWS (EC2) | Supabase | PostgreSQL, SQLite |

· **Artificial Intelligence & Computer Vision Models:** | PyTorch, TensorFlow, Keras, OpenCV, NumPy | YOLO | Machine Learning, Deep Learning | Classification, Prediction, Object Detection | Multi-Object Tracking (MOT), Action Recognition |

· **Optimization & Video Processing:** | Optimization Techniques, Metaheuristic Algorithms, Model Optimization | RTSP, WebRTC, MJPEG Streaming |

· **DevOps & Version Control:** | Git, GitHub, CI/CD Pipelines |

PROJECTS

AI Real-Time Person Detection & Tracking System   (2026)

· Built a real-time person detection pipeline using YOLO and multi-object tracking.

· Processed RTSP streams and optimized inference performance for deployment.

· Implemented tracking logic for frame-wise analytics and unique person counting.

AI Cricket Shot Classification & Batting Analysis System   (2026)

- Developed a cricket shot classification system using CNN-LSTM with MobileNetV2 for video classification and action recognition.

- Designed preprocessing and feature engineering pipelines for model training.

- Implemented backend APIs for confidence scoring and performance tiering.

Vision Snap – Computer Vision Dataset Tool (2025)

- Developed a dataset generation tool using React and modern JavaScript.

- Implemented webcam capture, video frame extraction, and automated dataset packaging workflows.

ALL IN ONE – OCR Web Application (2025)

- Built a JavaScript-based OCR web application with modular architecture and responsive UI.

- Extracted text and images from documents and scans with structured multi-page processing.

Hospital Management System with Brain Tumor Detection (2024)

- Developed a Django-based hospital management system with authentication workflows.

- Integrated deep learning-based tumor detection and medical reporting.

Tech Media Community – Collaborative Learning Platform (2023)

- Built a full-stack collaborative learning platform with secure authentication and dynamic rendering.

INTERNSHIPS & CERTIFICATES

In-Plant Training – iTrobes Technologies Pvt. Ltd. (July 2022)
Python Programming Intern – Srishti Innovations (July 2023)

EDUCATION

B.E. Computer Science and Engineering
Bethlahem Institute of Engineering, Tamil Nadu (2020 – 2024)