AKASH R M

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LinkedIn — GitHub — Portfolio

PROFESSIONAL SUMMARY

AI Developer specializing in Deep Learning, Computer Vision, and Full-Stack Web Development. Experienced in building real-time AI systems, scalable web applications, and end-to-end ML pipelines. Strong expertise in model optimization, video analytics, and production-ready AI deployment.

PROFESSIONAL EXPERIENCE

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

- Developed and deployed real-time person detection and multi-object tracking systems for video analytics applications.
- Engineered end-to-end pipelines for processing live camera streams with optimized inference performance.
- Improved detection accuracy through threshold tuning, tracking refinement, and performance optimization.

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

- Designed and implemented deep learning models for detection and recognition systems.
- Built scalable ML pipelines including preprocessing, training, evaluation, and deployment.
- Integrated AI models into production web systems and backend architectures.

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

- Produced deep learning and data science research documentation.
- Assisted in dataset analysis and model performance evaluation.

TECHNICAL SKILLS

- **Programming:** Python, JavaScript
- **Frontend:** HTML5, CSS3, React.js, Responsive Web Design
- **Backend & APIs:** FastAPI, Flask, RESTful APIs
- **Databases:** PostgreSQL, SQL, SQLite
- **Deep Learning:** PyTorch, TensorFlow/Keras, CNN-LSTM, MobileNetV2
- **Computer Vision:** YOLO (Ultralytics YOLOv8/YOLO11), Object Detection, Multi-Object Tracking (ByteTrack), Action Recognition
- **Model Optimization:** ONNX, OpenVINO
- **Video Processing:** RTSP Streaming, WebRTC, MJPEG Streaming, Real-Time Inference
- **CV Tools:** OpenCV, NumPy
- **Tools:** Git, GitHub, Deployment, API Integration, Debugging

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 and batting analysis system using CNN-LSTM with MobileNetV2 for video classification and action recognition.

- Trained models with structured preprocessing and feature engineering pipelines.

- Designed backend APIs for confidence scoring and batting strength tiering.

- Integrated an interactive frontend for video upload and analytics visualization.

Vision Snap – Computer Vision Dataset Tool (2025)

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

- Implemented webcam capture and automated dataset packaging workflows.

ALL IN ONE – OCR Web Application (2025)

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

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 report generation.

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)