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.

PROFESSIONAL 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

· **Programming:** Python, JavaScript

· **Frontend:** HTML5, CSS3, React.js

· **Backend & APIs:** FastAPI, Flask, RESTful APIs

· **Databases:** PostgreSQL, SQLite

· **Deep Learning Frameworks:** PyTorch, TensorFlow/Keras

· **Deep Learning Model Architectures:** Convolutional Networks (CNN, ResNet, EfficientNet, MobileNetV2), Sequence Models (LSTM, GRU, CNN-LSTM), Detection Models (YOLO)

· **Model Optimization & Search:** ONNX, OpenVINO, Metaheuristic Algorithms

· **Computer Vision:** Object Detection, Multi-Object Tracking (ByteTrack), Action Recognition

· **Video Processing:** RTSP Streaming, WebRTC, MJPEG Streaming

· **CV Tools:** OpenCV, NumPy

· **Tools:** Git, GitHub, Deployment, 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 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 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 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)