

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

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
Bethlalhem Institute of Engineering, Tamil Nadu (2020 – 2024)