

# AKASH R M

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[LinkedIn](#) — [GitHub](#) — [Portfolio](#)

## PROFESSIONAL SUMMARY

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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

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**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

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- **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

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**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**

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**In-Plant Training** – iTrobes Technologies Pvt. Ltd. (July 2022)

**Python Programming Intern** – Srishti Innovations (July 2023)

## **EDUCATION**

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**B.E. Computer Science and Engineering**

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