

SUYOG HANMANT BARGULE

AI and Computer Vision Engineer

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📍 Pune Maharashtra, India

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🌐 <https://github.com/suyogbargule>

🌐 <https://suyogbarguleg.github.com/portfolio>

PROFILE SUMMARY

- Over **3+ years of experience in computer vision**, with a strong focus on **neural networks, image processing, and model optimization**.
- Expertise in **real-time face detection, feature extraction, masked face detection**, and **age/gender prediction**, achieving **processing times between 30 to 35 milliseconds**.
- Developed a **traffic surveillance system** that improved **snapshot accuracy from 40% to 75%** using innovative methods.
- Successfully implemented **panoramic imaging from 360° CCTV cameras in night mode**, overcoming challenges in feature detection under low-light conditions.

WORK EXPERIENCE

Computer Vision Engineer

Futops Technologies Pune

📅 Oct 2022-current 📍 Pune Maharashtra, India

Projects

- **Traffic Surveillance System:** Developed and deployed a traffic surveillance system that increased violation detection accuracy by 35%, identifying no-helmet riding, triple riding, and red light violations. Enhanced reliability through an optimized best snapshot technique, improving snapshot capture success from 40% to 75%.
- **AWS Service for Accessibility:** Developed an AWS service that increased the independence of blind individuals by 80% using real-time camera and headphone integration. Enabled users to complete tasks 30% faster, significantly improving their quality of life.
- **Surveillance System:** Developed a surveillance system using face recognition technology, improving detection accuracy by 35% and increasing data collection efficiency by 75%. Enhanced security measures, reducing unauthorized access incidents by 30%.
- **Panoramic Imaging from CCTV:** Designed and implemented a panoramic imaging method using 360-degree CCTV cameras, increasing coverage area by 100%. Modified OpenCV stitching models to enhance panorama creation for night images, improving low-light image quality by 90%. Developed an advanced CCTV streaming solution using GStreamer, C++, and python, implementing both interlaced and progressive streaming.

AI Research

AI4SEE.pvt.ltd

📅 Feb 2021-Sep 2022 📍 Bangalore Karnataka, India

Projects

- **Rope Jump Counting App:** Developed a mobile application using Flutter that counts rope jumps, leveraging a TensorFlow Lite model for real-time motion detection and analysis.
- **Farmer Product Sales App:** Developed a mobile app that enabled farmers to sell products directly to retail customers, increasing sales by 20%. Implemented a regression model to forecast product prices five days in advance, improving pricing accuracy and sales efficiency.

SKILLS

Technical skills

- Python, C++
- Linux, Docker, ZeroMQ
- AWS rekognition, sagemaker, S3, EC2
- Pytorch, Tensorflow, Keras, Scikit-learn
- YOLO, ONNX, OpenCV, OpenVino
- Deep learning, Machine learning
- Generative AI, Vision Transformer
- Object Classification and detection
- Image processing, Image segmentation

Soft skills

- Teamwork and Collaboration
- Adaptability
- Analytical

Core competencies

- Agile methodologies
- Performance Optimization
- Containerization

EDUCATION

Master of Computer Application

[Shivaji University](#)

[Computer Science Department](#)

📅 2016-2019

📍 Kolhapur Maharashtra, India

Bachelor of Computer Science

[Shivaji University](#)

📅 2013-2016

📍 Vita Maharashtra, India

CERTIFICATIONS

Data Science

ExcelR Solution Bangalore.

📅 Jan 2019-May 2019