VIPIN P

9745459159 · vipinra79@gmail.com · https://www.linkedin.com/in/vipin-p-02635a179/
Mannarkkad, Palakkad

COMPUTER VISION ENGINEER

Experienced and results-driven professional adept at leveraging cutting edge technologies to drive advancements in image processing, computer vision, and artificial intelligence. Proficient in utilizing OpenCV for comprehensive image analysis and employing deep learning frameworks such as TensorFlow and PyTorch to develop advanced models. Skilled in designing and implementing algorithms aimed at enhancing image annotation quality, ensuring meticulous precision and reliability in annotated datasets. Possesses exceptional analytical and problem-solving capabilities, with a keen focus on maintaining the highest standards of accuracy and detail in image analysis tasks

---

TECHNICAL SKILLS

Python	Tensorflow, Keras & Pytorch	Object detection
Image Processing	PyTesseract	Image classification
Pillow,OpenCv	Deeplearning	Image segmentation

PROFESSIONAL EXPERIENCE

Infolks pvt ltd   **2021 (Present)**
Python Developer - Computer Vision

- Managing and preparing data for ML models, Conducting experiments with annotation data
- Research deep learning frameworks like TensorFlow and PyTorch to develop and train advanced models, empowering cutting-edge solutions in the field of artificial intelligence.
- Utilizing OpenCV extensively for image processing and computer vision tasks, ensuring robust and accurate analysis of visual data
- Designing and implementing algorithms and techniques dedicated to improving image annotation quality, ensuring high precision and reliability in annotated data.
- Annotation translation : COCO,YOLO,XML,KITTI,CSV

Chegg India   **2020-2021(Part Time)**
Subject Matter Expert
- Providing assistance to students in solving calculus problems with detailed explanations

Infolks pvt ltd   **Jan 2021-Dec 2023**
Data Annotator

- Annotate images according to specific guidelines provided by the client
- Participate in quality control and validation processes to review and correct annotations

PROJECT AND RESEARCH EXPERIENCE

CabGuard - Driver monitoring system

CabGuard is a monitoring system enhancing cab safety by detecting object usage (e.g., cigarettes, food, phones) in the driver's cabin using classification techniques. It adjusts the driver's insurance score based on behavior, promoting safer driving and reducing accident risks. This system helps insurance companies manage risk and encourages distraction-free driving. Currently in research and implementation stage.

SecureVision - CCTV footage tampering classification

Developed SecureVision, a real-time video tampering detection system using InceptionNet v3 for feature extraction and tampering identification, providing alerts and detailed reports to enhance security.

Tensor blur

Implemented human segmentation project using TensorFlow and OpenCv, employing U-Net architecture to blur backgrounds.

Drone Detection

Developed drone detection using TensorFlow Object Detection API, YOLOv8, and Keras for robust and accurate identification.

EDUCATION

College of engineering Pathanapuram
Electronics and communication engineering

CERTIFICATES

DeepLearning.AI
Advanced Computer Vision with TensorFlow

NPTEL
Course Python for Data Science

Udemy
Modern Computer Vision™ PyTorch, Tensorflow2 Keras & OpenCV4