

Sunita Patil

Professional Experience

****Senior Engineer, LeadSoc Technologies India Pvt Ltd** (03/06/2024-present)**

- * Led and developed various Computer Vision software applications based on client requirements.
- * Proficient in Python and C# for developing Computer Vision applications using Deep Learning and OpenCV

****Project Engineer, Redbot Innovations Pvt. Ltd.** (10/2020 – 5/2024)**

- * Developed and led teams on various Computer Vision software projects.
- * Proficient in Python and C# for developing Computer Vision applications using Deep Learning and OpenCV

Technical Skills

- * Computer Vision
- * Deep Learning
- * Machine Learning
- * Image and Video Processing with Acquisition
- * Custom training of Deep Learning Models with Model training, tuning, verifying accuracy and loss and optimization

Software Skills

- * Python
- * C#
- * OpenCV
- * PostgreSQL
- * Visual Studio 2017, 2019, 2022
- * VS Code, Windows Form in VS
- * Basler SDK, SVM, Baumer SDK, Spinaker Spin View SDK, IVMS, Colab, Kaggle.

Project Details

****Industrial Projects****

- * ****Reading OCR on medical carton box, on metal surface (car VIN number) and also on cylindrical metal surface****
- * Medical Carton Box OCR reading – Gland Pharma (Dec 2020 – Feb 2021)
- * Vin Number OCR reading – Maruti (MSIL) (Feb 2021 - June 2021)
- * Glow plug cylindrical metal surface OCR reading – Bosch (June 2021 – Dec 2021)
- * Identified Character position on carton with proper reading and comparing with input provided to give results
- * For VIN number reading of OCR with location display and spacing between letters with height and width of letters
- * Identified OCR on Cylindrical parts with parts presence/absence with parts location and OCR printed location
- * Performed in both Python and C#.
- * ****Engine sealant inspection, car panel sealant inspection.****
- * Car panel sealant inspection- Maruti (Dec 2021 – April 2022)
- * Engine sealant inspection – Toyota (Tkap) (Sep 2022 – Nov 2022)
- * Found whether the sealant applied on car panels or engine were continuous and not broken along with the threads
- * Also, pin pointed the location where the sealant is improper using OpenCV C#.
- * ****Identifying objects condition using Computer Vision.****

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- * Identifying Resolver lock conditions – Toyota (Tkap) (May 2022 – July 2022)
- * Identifying Thermistor lock conditions – Toyota (Tkap) (July 2022 – Sep 2022)
- * Performed object detection and checking parts locking is proper or not in c# using Opencv.
- * **Recognizing and identifying objects using Deep Learning.**
- * Wheel Identification – Wheels India (Nov 2022 – April 2023)
- * Performed object detection and tracking of small objects on wheels and labeled them using PyTorch, FasterRCNN
- * Wheel disc pattern with valve and color identification - Wheels India (Nov 2022 – April 2023)
- * Classifying the disc pattern and color identification with angle detection of color to center of part using OpenCV
- * Classification and detection of bike parts - Hero Motorcorp (April 2023 – Dec 2023)
- * Classifying the parts with part name and co-ordinates of the part as bounding box which was done by labelImg
- * **Person detection and pose estimation.**
- * Person detection and pose estimation – (Dec 2023- April 2024)
- * Using Deep Learning Model (YOLOv Models) have detected person and for pose estimation I have used MTCNN

Academic Details

- **Bachelor of Engineering, KLE College of Engineering and Technology, Chikodi, Belagavi** (07/2015 – 06/2019)
- * Graduated with 6.7 CGPA
- **Pre-university course, Excellent PU College, Moodbidri** (04/2013 – 04/2015)
- * Class of 2015 with 70%
- **Secondary School Leaving Certificate, Jain High School, Moodbidri** (04/2013)
- * Class of 2013 with 69%

Courses

- * Basics Java, Python and SQL, Jspiders.
- * Python for Computer Vision with OpenCV and Deep Learning, Udemy
- * Machine Learning, Data Science and Deep Learning with Python, Udemy.