Anurag Sahu

Last Updated on 29th January 2025

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Education

IIIT HYDERABAD

B.Tech

June 2021

- Received **Dean's distinction list Award** for academic performance.
- Btech in Computer Science and Engineering.

MS by Research

June 2022

- MS by Research with **Specialization in AI**.
- Did Masters under Prof. K Madhava Krishna.
- Deep Learning models that attain **Sim-to-Real** transfer.
- Worked with Blender and Unity to generate Synthetic data.

Links

GitHub Profile Link

LinkedIn Profile Link

Skills

PROGRAMMING

Python • Java • Kotlin
C/C++ • HTML/CSS
JavaScript • SQL

TOOLS AND FRAMEWORKS

Shell • LaTeX • Git
Android Studio • SpringBoot

Coursework

GRADUATE

Operating Systems
Artificial Intelligence
Algorithms
Statistical Methods in AI
Optimization Methods
Computer Vision
Mobile Robotics
Digital Image processing
Structured System Design and Analysis
Distributed Systems

Hobbies

- Automobile Enthusiast.
- Creating and Capturing Memories.
- Solving Daily Life Problems.

Experience

OLA

Software Development Engineer II

Aug 2024 – Present — Bangalore, Karnataka

- Designed and implemented **AI-based vision pipelines** for robot-based pick and place, leveraging segmentation models and depth filters for precise operations.
- Architected and deployed **3D inspection systems**, including **camera calibration** and end-to-end software pipelines, on **edge devices and Servers** for real-time manufacturing applications.
- Led the **Model Training** and Integration of **YOLOv8-based object detection and segmentation models** into vision inspection systems, improving defect detection accuracy and speed.
- **Collaborated across teams** to deploy scalable solutions for manufacturing automation using computer vision and deep learning techniques.

Software Development Engineer I

June 2022 – Aug 2024 (2 Years) — Bangalore, Karnataka

- Developed and maintained a **Manufacturing Execution System (MES)** that integrated data from PLCs and manual inputs, enabling real-time dashboards and reporting for factory operations.
- Led development from PoC to production, architecting a **Python-based MES with PostgreSQL** for scalable data handling and analytics.
- Reduced inspection system cycle time from **20 seconds to 2 seconds** through parallelization of tasks and optimization of data pipelines.
- Implemented various **Computer vision inspection systems** for 2D and 3D applications on edge and cloud platforms, enabling precise defect detection and dimension measurement.
- Conducted **Multi-camera calibration** for 3D dimension measurement systems, enhancing accuracy and reliability in manufacturing workflows.

SONY CORPORATION

Computer Vision Intern

Apr 2021 – Nov 2021 (8 Months) — Remote

- Worked with the SONY SARD India in Computer Vision Team.
- Worked on improving **Depth Maps** from Cameras(Super pixalation).
- **Removing Motion blur** from Depth cameras | Majorly used **Python**, **OpenCV**

Publications (Computer Vision)

MULTI-LAYER LAYOUT ESTIMATION FOR WAREHOUSE RACKS | ICVJIP 2021 | ARXIV LINK | PROJECT PAGE

- Given a monocular colour image of a warehouse rack, predict the bird's-eye view layout for each shelf in the rack.

MVRACKLAY: MONOCULAR MULTI-VIEW LAYOUT ESTIMATION | ROBIO 2022 | PROJECT PAGE

- Using the videos from all around the warehouse to reconstruct the whole 3D representation of the warehouse

Full Stack Projects

EV CHARGING APPLICATION

- Worked in **IoT Integration** and **OTA updates** in ev charger.
- Secured 4th Position in **Smart Indian hackathon**.