

# Anurag Sahu

BTech + MS 5th year IIIT Hyderabad.

## EDUCATION

### IIIT HYDERABAD

**B.TECH. AND M.S. BY RESEARCH**

Hyderabad, India

CGPA : 7.8

Expected Graduation:2022

## CONTACT

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AnuragSahu.github.io

## LINKS

Github:// **AnuragSahu**

LinkedIn:// **Anurag-Sahu**

Quora:// **Anurag-Sahu**

CodeChef:// **anuragsahu**

3-Star(Highest Rating : 1721)

## COURSEWORK

Operating Systems

Artificial Intelligence

Algorithms

Statistical Methods in AI

Optimization Methods

Computer Vision

Mobile Robotics

Digital Image processing

Computation Complexity Theory

Introduction to Databases

Computer Networks

Structured Systems Analysis and Design

Distributed Systems

## SKILLS

### PROGRAMMING

- Python
- C++ • Matlab
- Git • MySQL

## OTHER HOBBIES

- Riding
- Creating and Capturing Memories
- DIYing

## EXPERIENCE

### SONY INDIA PVT LTD | COMPUTER VISION INTERN

- Developed POC for improving Depth Maps from cameras.
- Creating Dense Depth Maps, Calibrating Depth Maps and RGB Images.
- Human Body Reconstruction using Multiple Views.

### DEEP VIDYA AI PVT. LTD. | COMPUTER VISION INTERN

- Conducting Research on Depth Estimation via Single/Multiple Views.
- Engaging in content creation for Deep learning and Computer Vision Courses.

## RESEARCH EXPERIENCE

### ROBOTICS RESEARCH CENTER, IIIT HYDERABAD

- Working under **Professor K Madhav Krishna** on Deep learning Applications on Warehouses.
- Dataset "WareSynth : Synthetic warehouse Generation Pipeline."  
**Project Page**

## PUBLICATIONS

### ICVJIP 2021

- Multi-Layer Layout Estimation for Warehouse Racks, Given a monocular colour image of a warehouse rack, predict the bird's-eye view layout for each shelf in the rack. **arXiv Link, Project page**

### UNDER REVIEW ICRA 2022

- RackLay: Monocular Multi-Layered Layout Estimation for Warehouses with Sim2Real Transfer, Given a monocular colour image of a warehouse rack, predict the bird's-eye view layout for each shelf in the rack. **arXiv Link, Project page**

## EXTRACURRICULAR ACTIVITIES

### JP MORGAN AND CHASE | VIRTUAL INTERNSHIP PROGRAM

May 2020 – June 2020

- Establishing Financial Data Feeds
- Frontend Web Development
- Data Visualization with Perspective

### WRITING ON ONLINE PLATFORMS | QUORA (500 K+ VIEWS)

frequent writeups on Quora about various topics like

- Technology, Image and signal processing, Deep learning

## ACADEMIC PROJECTS

- **Point Cloud Reconstruction** from 2D Images.
- **Stereo Dense Reconstruction** 3d point cloud out of 2d.
- **Localization Using EKF** Correcting the robot's estimated path.
- **TIC-TAC-TOE Bot** Playing Xtreme Tic-Tac-Toe.
- **2D Game, 3D Game and 3D infinite Runner game** in **OpenGL, WebGL**.
- **Matlab Image processing** to remove noise from Images and sound.