

ANIRUDH GOVIL

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EDUCATION

B.Tech. with Honours in Computer Science and Engineering 2020-2024
International Institute of Information Technology, Hyderabad CGPA 9.03/10
Relevant Coursework: Statistical AI, Mobile Robotics, Computer Vision, Graph Deep Learning, Advanced NLP, Reinforcement Learning
Activities: Coordinator of the IIIT Music Club(2021-2023), Quiz Club(2020-2022) and Debate Society (2021-2023). Handled finances (upto 2 lakhs), logistics and marketing and for multiple events a year.

SKILLS

Languages & Frameworks

Python (*Pytorch, Tensorflow, Open3D, OpenCV*), C++(*ROS*), C, Javascript(*MERN Stack*)

EXPERIENCE

Computer Vision Research Engineer May 2024 - Present
DreamVu Hyderabad

- R&D on image processing, stereoscopic depth detection & semantic segmentation for robotic vision.

Computer Vision Intern Dec 2023 - May 2024
Game Theory Hyderabad

- Camera calibration, object detection using a custom-finetuned model, triangulation, interpolation and trajectory generation to track fast-moving objects using basic cameras and edge devices.

Research Student August 2022 - May 2024
Robotics Research Centre IIIT-Hyderabad

- **Semantic Segmentation and Navigation of 3D Indoor Scenes, IIIT-H RRC, MIT CSAIL**
We segment indoor environment pointclouds into semantically significant zones, that can later be queried in natural language. Oral Presentation at *IROS 2024* and poster at a *CVPR 2024 Workshop*. I was supervised by Prof. Madhava Krishna

Grasping in Cluttered Environments, IIIT-H, University of Minnesota RPM Lab
Investigated Sampling based MPC in cluttered environments and Visual Servoing for Robot Handover.

Precog IIIT-Hyderabad

- **Improving Hinglish Code-Mixing for LLMs, IIIT-H**
LLMs tend struggle in code-mixed tasks. We attempt to improve their performance using our unique data-sets and improve cross-lingual understanding using code-mixed data. Our work is under review at *TALLIP 2024*
- **Investigating OCR In VLMs. IIIT-H PreCog**
We design probes to test and characterise CLIP's ability to recognise characters and the semantics of text in scenes. Under review at a *NeurIPS 2024 Workshop*

PROJECTS

Improving Factual Consistency for Abstractive Summarisation Monsoon 2023
Used a Q&A based consistency metric to fine-tune a seq-seq BART model to produce factually consistent summaries.

Low Light Image Enhancement using U-Nets with Attention Spring 2023
Added attention blocks and pruned the U-Nets to achieve better denoising and colour correction.

Neural Architecture search on Graphs Spring 2023
Automated finding an optimal GNN for a given dataset by pruning a super-graph and introducing cross connections.

Stereo 3D Reconstruction Monsoon 2022
A Structure from motion pipeline rebuilds a 3D environment using a stereo camera. An interactive interface lets you test out various filters and algorithms and compare their performance in real time.

AWARDS

- Megathon 2022 Winner : Won both rounds of the Stellantis Hackathon and a 1.8 lakh cash prize. Created an environment mapping pipeline for cars using Block-NeRFs.
- PM Foundation Fellowship : 1 of 10 students (internationally) awarded a scholarship to cover college tuition. Based on an open written test and interview round by Indian Administrative Service Officers.
- IIIT-H Dean's Merit List 2021 and 2022 : For ranking in the top 15% of class in my first and second year
- IIIT-H Dean's List 1 2023 and 2024: For ranking in the top 5% of class in my third and fourth years