

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 8.97/10
Relevant Coursework: Robotics, Computer Vision, Graph Deep Learning, Advanced NLP, Reinforcement Learning

LANGUAGES & FRAMEWORKS

Python (*Pytorch, Tensorflow, Open3D, OpenCV*), C/C++ (*TensorRT, Latency minimisation*), Javascript (*MERN Stack*)

EXPERIENCE

Computer Vision Research Engineer May 2024 - Present
DreamVu Hyderabad

- R&D on image processing, stereo depth detection, semantic segmentation & obstacle detection from 360° video for robots. Built the backend database, front end dashboard, low latency networking and quantised models for live video object & person detection & tracking on edge devices. Built scalable automated pipelines for extracting depth, pose and semantic segmentation for building 3D simulation environments from monocular videos.

Computer Vision Engineer Dec 2023 - May 2024
Game Theory Hyderabad

- All foundational code for camera calibration, real time object detection & tracking, stereo triangulation, interpolation and 3D trajectory generation for fast-moving objects using low frame-rate 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 *IIROS 2024 and OpenSun3D @ CVPR 2024*. Sup. by Prof.Madhava Krishna

Grasping in Cluttered Environments, IIIT-H, University of Minnesota RPM Lab
Investigating 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. Published at *TALLIP 2025*
- **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. Our work was featured at UniReps @*NeurIPS 2024*

PROJECTS

Reinforcement Learning for Bidding Strategies Spring 2024
Both closed form and deep-learning based solution to the problem of dynamic house pricing in a bidding environment.

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 & ACTIVITIES

- 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
- IIIT-H Research Award 2024 : 1 of 2 B.Tech CSE students to be recognised for producing quality research.
- 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.