Gujulla Leel Srini Rohan

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Education

Indian Institute Of Technology (BHU) Varanasi
Bachelor Of Technology in Electronics Engineering 9.05 CPI 2020–present

Sri Chaitanya Educational Institutions
Inter Public Examinations 98.1% Percentage 2018–2020

Projects

Image Coloration Website **Computer Vision, GAN, Vanilla JS, Django**

Used Pix2Pix algorithm with a generator and 3 discriminators to colorize black and white image trained on a custom dateset. Designed a dynamic website with basic HTML, CSS and Vanilla JS, and backend with Django

Hand Gesture and Dice Number Control of Robot Arm **Computer Vision, ROS, Arduino**

Exploratory Project Under Dr. Amit Kumar Singh

Implemented a CNN based network to classify hand gestures. Made a object detector to detect dice and predict number on it. Planned Robot arm path using MoveIt package of ROS according to gesture and number on dice and used Sim2Real Techniques to deploy it on 4DOF acrylic robot arm controlled by Arduino.

Multi Agent Optimal Coverage Control **Multi Agent, ROS**

A trajectory optimization for Multi Agent Systems in ROS as a Global Planner. This optimizer maximizes the coverage of the whole terrain for optimal distribution of sensor capabilities. This was used in swarm of 4 wheeled omni-drive robot to be used as Vacuum Cleaners.

Captcha Solver **Computer Vision**

Build a convolutional neural network(CNN) using tensorflow and keras to recognise captchas with different orientations and thickness of letters and emojis. The model architecture was trained by EMNIST and emojis dataset. OpenCV was used to segment letters from captcha

Skills

Computer Vision, Deep Learning, Reinforcement Learning, Digital Electronics, ROS, Data Structures And Algorithms,Web Frontend

Languages & Libraries : Python, C, C++, PyTorch, TensorFlow & Keras, OpenCV

Awards

1st Runner Up in Event Vichesta; ROS based event conducted by IIT ISM
2nd position in Event conducted by All IIT Robotics Association; Event based on multi agent coverage path planning
Runner Up in Event HardWired; Hardware implementation of robot conducted by Robotics Club IIT BHU.
All India Rank 2064 in Joint Entrance Examination Advanced; Which is top 0.2% of total students appeared

Courses

Neural Network Specialization

Course consists of basic foundation of Neural Networks, Convolutional Neural Networks, Object detection algorithms and basic introduction to Recurrent Neural Networks

David Silver Reinforcement Learning

Course consists of basic Reinforcement Learning algorithms

Data Structures And Algorithms

Course consists of basic Data Structures and algorithms used in C & C++

Position Of Responsibilities and Extra Curricular Activities

- Co Coordinator of Marketing Team Udyam - Technical fest conducted by Electronics Engineering Society IIT-BHU
- Co Coordinator of event Labyrinth and event DroneTech in Technex- Annual Technical fest of IIT-BHU
- Present Member of RoboReG - A Robotics research community of IIT BHU