GOPALAKRISHNA ADUSUMILLI

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EXPERIENCE

ADAS Intern, Continental AG R & D

Nov 2019 – Present Bangalore, Karnataka

Sensor fusion based object tracking for autonomous vehicles

- Implemented an end-to-end 3D object Detection model for LidAR.
- The model removes manual feature extraction methods
- Stacked with RPN architecture to project detection of vehicle on an image.

PROJECTS

Automatic Indian License plate recognition

- Data collection : Manually Collection of more than 50,000 vehicle license plates in different environmental condition which includes different categories of vehicles.
- Trained the model for recognition of license plates of the vehicle in traffic.

Multiple object and tracking using one stage detector strategy

- The objective is to shallow network for multiple object objection and real time tracking with custom pre trained model

End-to-end learning model for image segmentation

- The architecture is built upon the Fully convolutional Network and modified in a way that it yields better segmentation
- The model works with less number of images for training
- Unified approach of combining Localization and the use of context at the same time

AgriMitra - Gantry based precision farming (Nominated for financial grant by RKVY-RAFTAAR, Government of India Initiative)

- AgriMitra is 24x 7 crop monitoring robot works with principle of 3D printer and the robot hardware employs linear guides in the X, Y, and Z directions that allow for tools such as plows, seed injectors, watering nozzles, and sensors, to be precisely positioned and used on the plants and soil
- The entire system will be automated and numeric controlled
- The idea is to use to open hardware like raspberry pi, arduino etc.. and open CNC standards like g-codes for controlling of the project.
- Incorporated with AI algorithms for automatic weeding

COURSES

Deep learning specialization	Coursera
Machine learning course	Coursera by *prof.Andrew Ng.*
Crash course on python	Coursera & Google
Agripreneurship training	UAS, Dharwad

ONLINE CODING

HackerRank Link

EDUCATION

M.Tech in Digital Electronics

KLE Technological University,Hubli

Oct 2018 – Oct 2020

CGPA 8.30 (till 3rd semester)
Supervisors: Prof Dr. Uma. K. Mudenagudi (Dean R & D)

- Predictive Based Automatic Water Distribution System.
- GUI framework for image processing algorithms.
- Neural style transfer.
- Data augmentation using GAN.

BE in Electronics & Communication

Visvesvaraya Technological University

Aug 2013 – Jul 2018

First class
• Received an grant-in-aid from the university for the Project Cartesian based CNC machine for additive manufacturing

TECHNICALSKILLS

DL Framework: Tensorflow, pytorch
Architectures: CNN, RNN, LSTM
ML algorithms: SVM, Kmeans, KNN, Logistic
Languages: Python, C | OS: Linux, Raspbian
Softwares: Git, markdown, MongoDB, openVINO

HARDWARE

GPU : NVIDIA Titan XP, Jetson Nano
Depth Sensor : Kinect, Real sense
SBC : ESP 8266, ATMEGA 328, RPi, Google coral

SOFTSKILLS

Team Work | Agile | Observant
Responsible | Hard-Working

LANGUAGES

English, Hindi, Kannada, Telugu

BOOKS STUDIED

•Deep Learning - Ian Goodfellow •Deep learning with python - François Chollet