UPPALA GANESH

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Electronic Engineering IIT (BHU), Varanasi	8.31	2022

Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Sem VII	Sem VIII
8.30	8.29	6.65	8.06	9.00	-	-	-

Degree/Certificate	Institution	Percentage/CGPA	Year
Board Of Intermediate Education, A.P (XII)	Narayana Junior College	97.90	2018
Board Of Secondary Education, A.P (X)	RavindraBharati E.M School	93.10	2016

SKILLS

Language

C, C++ , Python

PROJECTS

Sign Language Translator

- Designed a Sign Language Translator using Deep Learning and Raspberry Pi.
- The translator bridges the communication divide between the speech impaired and the normal people.

HandWritten Digit recognision

- Implemented **Convolutional neural network** to recognise handwritten digit showing 0-9 digits with accuracy of **97%**.

Traffic signs Detection

- This is a multiclass Detection model which detects **43 Different traffic signs**
- Used various optimization methods and got **95%** accuracy

Self-Driving car simulator

- Implemented Convolutional Neural Networks (CNNs) to move a virtual car in the simulator
- The network model was mainly inspired from Nvidia's paper on autonomous cars
- The angle for **steering** was predicted using the trained model, the throttle was calculated using formula invloving steering angle
- Used Udacity Simulator

Exoskeleton

- Designed and built an exoskeleton for hand that powers elbow and supports shoulder(no movement of shoulder restricted) using emg sensors, linear actuator, Arduino.
- Designed exoskeleton to ensure weight of hand and exoskeleton is grounded to waist.
- Used Arduino to program the control systems.

CERTIFIED COURSES

Deep Learning

- Convolutional Neural Networks
- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
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- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models

HONOURS AND ACHIEVEMENTS

- Certificate of Commendation for good performance in **AP EAMCET(Rank-877)**.
- Awarded Certificate of talent for getting **District 1st** in Maths and Science Olympiad conducted by SAST
- Participated in **State Level** Baseball Championship organised by School Games Federation of A.P

EXTRA-CURRICULAR ACTIVITIES

- Played Kho-Kho in Spardha 2018(IIT BHU Sports Fest) and in Inter Department Fests.
- Participated in Spybits in Udyam'20(**Cryptographic event**)
- Participated in Mosaic in Udyam'20(**Machine Learning event**)

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