

Uday Girish Maradana

D.No:14-437/6,Lakshminagar,Gopalapatnam,Visakhapatnam-530027

☎ (+91) 8137080271 | ✉ einsteingirish@gmail.com | 🏠 udaygirish.github.io | 📱 udaygirish | 🌐 udaygirish-maradana

Education

National Insitute of Technology, Calicut

Kerala, India

B.TECH(MECHANICAL ENGINEERING)

July 2015- May 2019

- CGPA: 6.52/10.0
- Elective Courses: Control Systems Engineering, Introduction to Robotics, Artificial Neural Networks and Genetic Algorithms, Image Processing

Narayana Junior College

Andhra Pradesh, India

INTERMEDIATE EDUCATION

June 2012- April 2014

- Percentage: 97.2 %

St.Anthony's School

Andhra Pradesh, India

SSC

June 2011-May 2012

- CGPA: 9.5/10.0

Skills

Languages C,C++,Python,HTML,R

Design and Analysis SolidWorks,Ansys, FluidSim, Master-Cam,CREO,COMSOL,MATLAB,Proteus

Cloudbased MySQL,GCP,AWS,Azure

Open Source Octave,R,Arduino,GPS,GSM,IMU,Raspberry Pi,OpenCV,ROS.

Technologies ML,NLP,AI,Computer Vision,IOT,Speech Tech,Control Systems,GA,Network Security,Pneumatics, Cloud and Embedded GPU Platforms

Research Skills AI, Robotics,Advanced Drone Systems, Human-Computer Interaction,Quantum Physics

Other Skills Leadership, Research, Public Speaking, Strategic Planning, Project Management,MS Office

Certifications/Courses Completed

Coursera

(VISIT MY LINKEDIN PROFILE TO VIEW CERTIFICATES)

- Machine Learning by Stanford University on Coursera
- Neural Networks and Deep Learning by deeplearning.ai on Coursera
- Improving Deep Neural Networks by deeplearning.ai on Coursera
- Structuring Machine Learning Projects by deeplearning.ai on Coursera
- Convolutional Neural networks by deeplearning.ai on Coursera
- Sequence Models by deeplearning.ai on Coursera

Industry Knowledge

(VISIT MY LINKEDIN PROFILE TO VIEW CERTIFICATES)

- AWS Machine Learning Speciality
- GCP Cloud Associate Engineer
- AWS Associate Solutions Architect

Experience

Quantiphi Analytics Solutions

Bengaluru, India

MACHINE LEARNING ENGINEER

May 2019 - --

- Worked on different DL algorithms such as Object Detection, Pose Estimation and Image Classification for production grade deployment.
- Worked on developing subsystems of a video analytics pipeline on cloud , as a part of it worked on integrating Clusters, Databases and Serverless platforms.

Storilabs System Technologies

Calicut, India

INTERN

June 2018 - Sep 2018

- A project related to Online Surveillance using Artificial Intelligence and cloud based technologies.

Projects

Robo DJ (Jan 2020 - ongoing) DJ with Deep Learning using Audio and vision based architectures. Under literature review for getting domain knowledge for hybrid implementation.

Autonomous Bot-v1 using DL and ROS(Feb 2020 - ongoing) Development of an Autonomous bot using ROS, Object Detection, Lane Detection and path planning using Jetson Nano, RPI4 with night vision system implemented.

Cloud based video surveillance system (June 2018-Jan 2019) Development of an Object Detection and live video surveillance system using Google Cloud Machine Learning Platform.

Knee Rehabilitation System (July 2018 – April 2019) We are trying to design and fabricate a device with 2 DOF mechanism which can be used for performing Flexo-extension exercises which will be used for Knee rehabilitation purposes.

RIGGU V2-The Semi Humanoid (May 2018 – May 2019) Complete framework for the development of an Interactive Semi-Humanoid Robot using technologies like AI,NLP,ROS,SLAM.

Quadcopter (May 2016 – May 2019)

Version 1: Quadcopter based on Arduino Mega 2560 and IMU, with PID control Algorithm.

Version 2: Quadcopter based on APM 2.8(Flight controller)with GPS Module which is capable of performing Autonomous operations.

Version 3: Working on Coordination among two quadcopter to achieve a basic level of swarm.

Hexacopter (Feb 2018 – May 2018) A hexacopter was made based on ARM and controlled manually. PID tuning was done for the stability. This project involves the testing and performance analysis of hexacopter on PID and backstep algorithms.

GUI For Library Automation (Mar 2018) This project involved working on python and tkinter to develop a basic graphical interface for automation systems.This was tested with a library automation system.

Four wheel steering system (Jan 2018 – April 2018) We are a team of three members worked on this project involved submission of a fabricated model as a part of our course programme.In this project we used a mechanism to orient the four wheels in such a way which enables the automobile to take a sharp turn with minimum radius of curvature.

RIGGU (Jan 2017 – Dec 2017) It is a robot which has capabilities like Image Processing, Speech Recognition. It is an Interactive Robot which is made on Raspberry Pi platform based on Python, OpenCV, PSphinx and e-speak.

Robocon Bot (Sep 2016 – March 2017) A manual bot which can throw disks at specified positions which was made by our Robotics Interest Group for National level Robotics Competition called Robocon- 2017.

GSM-GPS Guided Bot (Jan 2016 – Apr 2016) A four wheel mobile robot which can move from one specified location to another with the help of GPS and GSM modules.

Publications

RIGGU: A Semi-Humanoid Robot Platform for Speech and Image Recognition (Yet to be Published)

Complete framework for the development of an Interactive Semi-Humanoid Robot using technologies like AI,NLP,ROS,SLAM.

Extracurricular Activities

Jagriti Yatra

2019-20

YATRI

- An exciting journey around 12 different places in India, connecting with 450 people from different parts of world. Meeting people who are doing exceptionally in the fields of social welfare, Sustainable Product development, Technology, Rural development etc.

Robotics Interest Group - NIT Calicut

2015-2019

MEMBER

- Participated in National Level Robotics Competition with team of 20 Members.
Event: ROBO- CON 2017 Place: Pune, Maharashtra Date: 2nd to 4th March 2017 Role Played: Mechanical design and fabrication of manually controlled Robot.
- Volunteered 2 day workshop on Basic Introduction to Robotics to college first years.
Role Played: Explained the software and gave introduction to Pneumatics, various field of robotics and explained how to code a Line following robot and Obstacle Detection Robot.

Community Outreach

2019	Speaker , Handled a session on Neuroscience and Artificial Intelligence in a GDG Meetup	<i>GDG Bangalore</i>
2019	Speaker , Introduced Robotics and AI to Rural IT people as a part of India Literacy Program	<i>DMS Center, Gubbi</i>
2018	Participant , NiTckathon.Ai which is an AI based hackathon conducted by JMR Infotech.	<i>NIT Calicut</i>
2017	Participant , India design Contest(conducted by DST, Texas Instruments,Startup India)	<i>Online Competition</i>
2018	Attendee , Short-term programme on Research Methodology in Science, Energy and Management	<i>NIT Calicut</i>
2018	Attendee , Full day session on Startup and IPR Awareness Program	<i>NIT Calicut</i>
2015	Attendee , Seminar on Innovations in Space Technology	<i>NIT Calicut</i>

Languages and Hobbies

Languages

TELUGU, ENGLISH, HINDI

Hobbies

READING BOOKS, LISTENING MUSIC.

References

Dr. M D Narayanan

NIT Calicut

ASSOCIATE PROFESSOR(MECHANICAL ENGG.)

- E-mail : mdn@nitc.ac.in

Dr. A P Sudheer

NIT Calicut

ASSISTANT PROFESSOR(MECHANICAL ENGG.)

- E-mail : apsudheer@nitc.ac.in
- Office Phone : 04952286420