

Yellanki Ekantha Sai Sundar

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EXPERIENCE

Assistant Manager

Advanced Academic Center

September 2023 – Present, Hyderabad, India

- I am an Assistant Manager at Advanced Academic Center Organization. As an Assistant Manager, I am responsible for teaching my juniors in my college. As my domain is Machine Learning, I train juniors based on Machine Learning and guide them on doing projects related this domain
- Along with this, I also collaborate with seniors by doing projects along with them. I also actively take part in writing research papers and publishing them.

PROJECTS

Attendance Management System

Advanced Academic Center • March 2024 – June 2024

- An attendance management system application that extracts features from live camera feed, and compares the features with the existing pictures to give attendance to the recognized person
- The Machine Learning Application was done using python. The Main Frame Data is implemented in Postgress SQL , and with the help of SpringBoot micro services, we have hosted an API. Live data is stored in firebase, and at the end of the day, with the help of cron job, we extract the data from firebase and send it to Postgress SQL data.
- We have created timeframes for each subject to get attendance as per the subject timings
- Future scope includes to further implement this using Raspberry PI and Arduino.

Autonomous Car Driving Simulation using Udacity

Gokaraju Rangaraju Institute of Engineering and Technology

- github.com/AAC-Open-Source-Pool/Autonomous-Car-Driving-using-CNN • March 2024 – June 2024
- Using Udacity Simulator, we collected training data from the simulator, and using this training data, we trained our model using the Convolutional Neural Network Model provided by NVIDIA.
- Further improvements can include adding IoT components and implementing using hardware modules

Blind Helper

Gokaraju Rangaraju Institute of Engineering and Technology • March 2024 – March 2024

- This project was done while my team and I were participating in the Vivitsu Hackathon conducted by our college. We won 2nd position in the health care domain.
- The basic ideas was to provide a helpful interface for blind and partially blind people.
The first implementation was Drug Name Detection, which was achieved by using PaddleOCR open source application. We store the name and the dosage of the drug in a list data structure, and pass it to pyttsx3 library so that it can be read aloud for the user
- Along with this, we also did a virtual walking helper by integrating the phone camera with our object detection application. The camera screen is divided into 4 quadrants, and based on the location of the object and the distance of this object in the given quadrants, we give live feedback to the user in the form of speech

Wine Quality Index

Advanced Academic Center • github.com/Ekanth-Sai/Wine-Quality-Index • October 2023 – October 2023

- A simple implementation of Random Forest Application

Text Summarization and Information Extraction

Advanced Academic Center • github.com/AAC-Open-Source-Pool/Video-Summarization • March 2023 – August 2023

- I have created a machine learning application that summarizes text based on the text summary ration given by the user. This feature has also been extended to .txt and .pdf files.
- Along with this, by using web-scraping, I extracted information from Wikipedia based on the users keyword.
- Approached the problem statement using NLP concepts and SpaCy library

EDUCATION

Bachelors in Science

Indian Institute of Technology Madras • Madras, India • 2028 • 7.0

Bachelors in Technology

INVOLVEMENT

Assistant Manager

Gokaraju Rangaraju Institute of Engineering and Technology · Advanced Academic Center · September 2023 – Present

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SKILLS

Front End: HTML, CSS, JavaScript, php Python based streamlit and flask.

Languages: C language, Java, Python.

Micro-Services: SpringBoot

Database application: MySQL, PostgreSQL

Role based Application: Machine Learning, Deep Learning