

G.NIKITHA

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Education

KLH UNIVERSITY

Bachelors of Technology, 9.59 CGPA

- **BRANCH:** ECE

BACHUPALLY, HYDERABAD

2023-2027

SRI CHAITAINYA JUNIOR COLLEGE

MPC, 98.1

HYDERABAD

2021-2023

RAO'S MY TECHNO SCHOOL

10 CGPA

HYDERABAD

2020

SKILLS

Languages: C, Java, Matlab, Arduino, HTML, CSS

AIML: - TensorFlow, Keras, Data analysis

Tools and Platform: VS CODE, POWERBI, EXCEL, MATLAB

PROJECTS

AI Plant Disease Detection| *Python, TensorFlow, StreamLit*

2024

- Developed an machine learning model capable of detecting and classifying plant diseases from images, assisting farmers and gardeners with early diagnosis.
- Utilized image processing and feature extraction techniques combined with CNN-based deep learning models for accurate disease identification.
- Implemented a user-friendly interface that allows farmers to easily upload plant images and receive real-time disease diagnosis along with possible treatment suggestions.

Digital Thermometer using LM35 and 8051 Microcontroller| *IoT*

2024

- Designed and implemented a digital thermometer using the LM35 temperature sensor and 8051 microcontroller.
- Programmed the 8051 microcontroller to read, process, and display temperature data on an LCD screen.
- Developed a reliable temperature measurement system for real-time monitoring applications.

IoT-Based Flood Monitoring System| *ThingSpeak, Arduino IDE*

2024

- Developed an IoT-based flood monitoring system using NodeMCU, ultrasonic sensors, and the ThingSpeak platform for real-time data collection and analysis.
- Implemented ultrasonic sensors to measure water levels in rivers, ponds, and reservoirs accurately.
- Integrated wireless communication via NodeMCU, sending real-time measurements to the ThingSpeak cloud for processing and visualization.

Voice Controlling Obstacle Avoiding Car Using Arduino

2023

- A design variant of obstacle avoidance and voice control for the automobile's car unit. The working is based on Arduino micro-controller, motor driver and ultrasonic sensor. A Bluetooth module is used to create a communication link between the car and human voice commands via Android Application.

CERTIFICATIONS

- AWS Cloud Practitioner Certification and Badge
- Participation certificate in ACMxKLH Innovatexpo2024
- Participation certificate in HACKATHON

RESEARCH PAPER

- Underwater Optical Communication(UWOC)-Under progress

EXTRA CURRICULAR ACTIVITIES

- Participated in 6-hour coding hackathon, showcasing problem-solving skills and algorithmic thinking.
- Active participation in weekly coding challenges on CodeChef and HackerRank, consistently improving problem-solving abilities.
- Attended workshops and seminars on AI, ML, and Data Science to stay updated on industry trends.
- Successfully organized and managed Event as part of the college fest, overseeing planning, coordination, and execution. Collaborated with teams to ensure smooth operations, participant engagement, and audience interaction.